# START 3

Superfund Technical Assessment and Response Team 3 – Region 8





**United States Environmental Protection Agency Contract No. EP-W-05-050** 

## PRELIMINARY ASSESSMENT

GALLEY ROAD DUMP SITE Colorado Springs, El Paso County, Colorado

TDD No. 1208-05

## March 29, 2013



## In association with:

Garry Struthers Associates, Inc. LT Environmental, Inc. OTIE TechLaw, Inc. Tetra Tech EM. Inc.

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March 28, 2013

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SUBJECT: START 3, EPA Region 8, Contract No. EP-W-05-050, TDD No. 1208-05

Revised Final Preliminary Assessment Report for Galley Road Dump Site

Colorado Springs, El Paso County, Colorado

Dear Ms. Barnard:

Attached are two copies of the final Preliminary Assessment Report for the Galley Road Dump Site Colorado Springs, El Paso County, Colorado. Your comments and concerns have been incorporated into the final revision.

This final report is submitted for your approval and signature.

If you have any questions, please call me at 303-291-8291.

Sincerely,

URS OPERATING SERVICES, INC.

Barry Hayhurst

Project Manager

cc: Charles W. Baker/UOS (w/o attachment)

File/UOS

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#### PRELIMINARY ASSESSMENT

GALLEY ROAD DUMP SITE Colorado Springs, El Paso County, Colorado CERCLIS No. COD983785494

> EPA Contract No. EP-W-05-050 TDD No. 1208-05

> > Prepared By: Barry Hayhurst Environmental Scientist

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Approved:		Date:
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Approved:	Charles W. Baker, START 3 Program Manager, UOS	Date: 3 25/13
Approved:	Barry Hayhurst, Project Manager, UOS	Date: <u>March 28, 2</u> 013

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#### 1.0 INTRODUCTION

This Preliminary Assessment (PA) of the Galley Road Dump site (CERCLIS ID# COD983785494) in Colorado Springs, El Paso County, Colorado, has been prepared to satisfy the requirements of Technical Direction Document (TDD) No. 1208-05 issued to URS Operating Services, Inc. (UOS) by the Region 8 office of the U.S. Environmental Protection Agency (EPA). A site reconnaissance was performed by UOS personnel on October 30, 2012. The Preliminary Assessment Reconnaissance Form (Appendix C) and the PA Report Form (Appendix D) were prepared from data collected during the site reconnaissance. This PA report is the result of observations made during the site reconnaissance and information obtained from historical records; federal, state, and local agencies; and personal interviews.

#### 2.0 OBJECTIVES

The objectives of this PA are to gather data and desktop information and evaluate potential sources, pathways, and targets to identify data gaps; and generate a best available data preliminary site score, and a best professional judgment site score to determine if the site requires additional sampling.

The specific objectives of this PA are to:

- Determine and document likely contaminant characteristics and quantify waste sources;
- Determine and document receptor targets and applicable pathways; and
- Document observed data gaps.

#### 3.0 SITE DESCRIPTION

#### 3.1 SITE LOCATION

The Galley Road Dump Site is located in southeast Colorado Springs, Colorado, approximately 1.3 miles northwest of Peterson Field and the City of Colorado Springs Municipal Airport complex (Figure 1). The legal description of the center of the site is the NW ¼ of the SE ¼ of Section 12, T. 14S. R. 66 W. of the Sixth Principal Meridian (U.S. Geological Survey [USGS] 2010). The latitude and longitude of the site are 38.844 degrees north and -104.725 degrees west and the elevation of the site is approximately 6,200 feet above mean sea level (USGS 2010). The terrain at the site is relatively flat (Photos 4 and 6).

The Galley Road Dump Site is a 97.85 acre site in a recently developed area of southeast Colorado Springs. (Roy F. Weston, Inc. 1994, EPA 1997d). The dimensions of the site are 2,600 feet north-south and 1,200 feet east west. Sand Creek, a semi-perennial stream, flows diagonally

from north to south across the western edge of the site. The site is bordered on the east by North Powers Boulevard (Colorado 21), on the south by East Platte Avenue (U.S. 24), on the west by Babcock Road, and on the north by Galley Road. Space Center Drive winds through the site from the northeast to southwest corner of the site (Figure 2). Most of the construction in the area appears to date from the 1990s and early 2000s (UOS 2012).

A small two building office park development is located on the northwest side of the site along Galley Road and a larger four structure office park development is located on the south central side of the site along East Platte Avenue (US 24) (Figure 1) (UOS 2012).

#### 3.2 SITE HISTORY AND PREVIOUS SITE WORK

## 3.2.1 Property Ownership History

The first owner of record is Ed Bledso (1940 to 1950). The property was owned by Margret Lichty of Chadron, Nebraska; Helen W. Willson of Colorado Springs, Colorado; and Alen Pezoldt of Colorado Springs, Colorado between 1950 and 1964 (URS Consultants [URS] 1993). The site was purchased in 1964 by Allan E. Pezoldt, then the property title was transferred to Wheaton College sometime in 1965. A small square of the western parcel was purchased by the City of Colorado Springs in 1970. In 1973 the property was subdivided into two parcels (east and west of Sand Creek) and the east parcel was sold to Blocks and Larsens. The eastern property parcel was purchased 7 days later by Powers Properties and then sold to Science Park Property in 1984. The property was owned by Western Growth Properties in 1994 (Woodward-Clyde 1996).

Mr. Pezoldt repurchased the western parcel of the property in 1976. The property was sold to Bartlesville College in 1982 and repurchased by Mr. Pezoldt in 1984 (Woodward-Clyde 1996). In the period 1984 to 1987, Otero Savings and Loan financed the purchase of the property by Science Park Properties. When Otero Savings and Loan failed, the real estate mortgage was assumed by the Resolution Trust Corporation (RTC) (Roy F. Weston, Inc. 1994).

The property at the site is currently owned by four entities; Patriot Park LLC, Science Park LLC, Babcock Business Trust LLC, and Heidi LLC. The parcels owned by each entity are shown in Figure 2.

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#### 3.2.2 Site History

The site was first used for ranching. At some time during the mid-1960s, surplus steel missile launcher rails were stored on the site. The property owner also began to allow dumping of household, commercial, and industrial waste on the site, primarily along the east side of Sand Creek (Woodward-Clyde 1996). Industrial waste was dumped by the Joy Manufacturing Company (later Denver Equipment Company) (Roy F. Weston, Inc. 1994). Dumping activities continued from the mid-1960s until about 1980 (EPA 1997d).

Environmental Site Assessment (ESA) activities conducted in late 1980s by Ecocure, Inc. and Chen-Northern (on a parcel on the north side of the site) identified potential environmental hazards at the site (Woodward-Clyde 1996). An EPA/Emergency Response Branch (ERB) On-Scene Coordinator (OSC), El Paso County Health Department Official, and the EPA Technical Assistance Team (TAT) conducted a site visit on August 9, 1991 and determined that potential hazardous waste was found on the site. The team documented that surficial waste piles in an "oblong, ellipsoidal, north-south tending area covering 23 acres" was found along the east bank of Sand Creek, and that a smaller 2-acre waste area was located in the southeast corner of the site (EPA 1997d). The team noted numerous small piles of what appeared to be waste material scattered about the site as well as many partially buried and badly deteriorated drums scattered about the site. The list of wastes observed by the team on August 9, 1991 included "empty rusted paint buckets, black metallic sand, 55-gallon metal drums, and numerous old and deteriorating drums containing solids colored gray, green, white, and yellow" (EPA 1997d).

TAT conducted a Site Investigation (SI) of the site in the 1991 for the EPA. A copy of the Sample Location Map showing the original locations of the waste piles and trash areas from that investigation is presented as Figure 5.

A major investigation was conducted by Response Engineering Analytical Contract (REAC) in 1993 and additional site characterization and removal activities were conducted in 1995 and 1996 for the removal by Sveldala Industries (Roy F. Weston 1994, Woodward-Clyde 1996). In 1997 the EPA reported that all known contamination had been removed from the site (EPA 1997d).

Review of the available information included a site reconnaissance conducted in October 2012 by START for the EPA Region 8 office.

#### 3.2.3 Previous Site Work

Multiple environmental investigations and remedial actions have been conducted at the Galley Road Dump site beginning in 1989 and continuing through this investigation. Brief summaries of the previous investigations are listed below.

<u>June 1989</u> – Ecocure, Inc. conducted a site reconnaissance for Otero Savings and Loan. The Ecocure site reconnaissance indicated the presence of waste materials on site identifying an oblong, ellipsoidal, north-south trending area of approximately 23 acres along the east bank of Sand Creek where waste had been deposited (AquaSan Network, Inc. [Aquasan] 1992).

<u>June 1989</u> – Chen-Northern performed Phase I and Phase II ESAs of the 980 Technology Court facility located on the northern edge of the site for Becker-Johnson, Inc. Three test borings were advanced at the 980 Technology Court property and found fill material of clayey sand with concrete, asphalt, and fragments of sand casting molds. The fill varied in thickness from 8.5 to 13.5 feet. Beneath the fill was naturally deposited silty sand. Groundwater was encountered between 14.5 to 24 feet below ground surface (bgs) (Roy F. Weston, Inc. 1994).

August-October 1991 – The EPA Region 8 Emergency Response Branch (ERB) REAC Technical Assistance team (TAT conducted a site investigation that included limited geophysical work (searching for buried drums). The investigation identified a 5 to 10 acre area along the eastern bank of Sand Creek that contained the majority of the waste piles, drums, tires, and backfill materials. Some smaller piles were identified scattered about the site. The waste piles were noted to contain hundreds of drums and tires. The waste piles were identified as primarily containing waste foundry materials such as millings, oven cinders, and ash. Potential asbestos containing materials (ACMs) including possible transite asbestos pipe, casts, grindstones, and grindings were also identified. A radiation survey did not detect any radiation sources above background at the site. Samples collected from the waste material in a pile from the southern portion of the larger waste deposition area identified high levels of chromium, cadmium, and lead. No significant

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high concentrations of metals were detected in the waste piles on the northern portion of the waste deposition area (Ecology and Environment, Inc. [E&E] 1991).

November 1991-June 1992 - Aquasan conducted a Phase II ESA for the Resolution Trust Corporation. Aquasan conducted three sampling events to evaluate the waste characteristics at the site by collecting waste, drum content, soil, and groundwater samples. The only hazardous wastes identified were the contents of three drums. Soil and groundwater samples did not exhibit elevated concentrations of contaminants. The field events also included two geophysical surveys of the site searching for buried metal. The results of the surveys were negative. Aquasan identified two general areas of waste deposition on the site. The larger area covering approximately 23 acres was located along the eastern bank of Sand Creek, and a smaller 2 acre area was located near the southeast corner of the site. The larger waste deposition area was estimated to contain approximately 46,700 cubic yards (yd3), not including an estimated 2,000 used tires and 200 drums. The 46,700 yd<sup>3</sup> was estimated to be composed of 56 percent construction debris and 21 percent metals waste. The smaller southern area was estimated to contain approximately 3,700 yd3, which was an estimated 8 percent of the onsite waste total (Aquasan 1992). The first inventory of waste and waste characteristics observed at the site was made in 1992. The inventory is shown in Table A.

Table A
Waste and Waste Characteristics at The Galley Road Dump in June, 1992
By Aquasan Network, Inc.

Type of Waste	Characteristics	Volume		
Metal	Metal waste consisting of machining and/or milling cuttings.	10,000 (yd³)		
	Three samples representing the three major types of metal waste observed on the site were submitted for analysis of leachable metals by the Toxicity Characteristic Leaching Procedure (TCLP) analysis, and the analytical results indicated that none of the samples exhibited characteristics of a hazardous waste.			
Foundry Ash and Cinders	Ash and cinders.  Seven samples of ash and cinders were submitted for TCLP analysis and the analytical results indicated that none of the samples exhibited characteristics of a hazardous waste.	3,000 yd <sup>3</sup>		

Table A
Waste and Waste Characteristics at The Galley Road Dump in June, 1992
By Aquasan Network, Inc.

Type of Waste	Characteristics	Volume
Various Drummed and Containerized Materials	Fifty-five-gallon steel drums and other plastic containers of various sizes.	200 drums
	At least seven drums were sampled for TCLP metals and volatile organic compounds (VOCs). Cadmium and lead were detected above the regulatory limits. Very small amounts of acetone, methylene chloride, and total xylenes were detected in the drum contents.	
	A geophysical survey was performed around the perimeter of the main waste pile to identify buried drums. There were no buried drums identified.	
Used Tires	Discarded auto tires in waste piles, buried, piled in one large pile.	2,000 tires
Asbestos Containing Materials (ACMs)	Siding, furnace brick wrapping, vent pipe wrap.  Five suspected ACMs were collected and analyzed, and results showed that four of the samples contained between 1 percent to 80 percent asbestos (chrysotile).	200 yd <sup>3</sup>
General Construction and Demolition Debris	Concrete, lumber, roofing materials, wire.  No samples of the construction and demolition debris were collected for laboratory analysis.	26,000 yd <sup>3</sup>
Imported Soil	Soil dumped at the site from other locations.  No samples of the imported soil were collected for laboratory analysis.	7,500 yd <sup>3</sup>

June 1993 – The EPA Region 8 Alternative Remedial Contract Strategy (ARCS) Contractor performed a PA of the Galley Road Dump site. The PA report noted that there were no liners, covers, or engineered run-on or run-off controls at the site to minimize potential to release. The report also noted a potential for release via the air migration pathway of the fine-grained material and that the closest residence to observed contamination was approximately ¼ mile north of the site in a residential subdivision. Based upon site conditions observed during the March 18, 1993 site reconnaissance, URS sent an Immediate Potential Threat Memorandum to the EPA on March 24, 1993 (URS 1993).

October 1993 – The EPA Region 8 ERB REAC conducted sampling, geophysical work and treatability investigations. This investigation was the most complete and thorough assessment to that date of site conditions and included soil, groundwater, sediment, drum,

and metal manufacturing debris sampling as well as geophysical surveys to locate buried containers or waste, and treatability studies (Roy F. Weston, Inc. 1994).

Based upon a review of the previous investigations, the REAC investigation identified the following potential contaminants of concern at the Galley Road Dump site:

- Asbestos (both friable and non-friable)
- Polychlorinated biphenyls (PCBs);
- Metals: cadmium, chromium, lead, and zinc;
- Cyanide; and
- Gamma radiation (for Health and Safety Monitoring).

Nineteen drums of solid material were sampled for metals by Weston in 1993 by the field X-ray fluorescence (XRF) unit and submitted for Target Analyte List (TAL) Metals analysis to a laboratory. No liquids were observed in any of the drums encountered on site (Roy F. Weston 1994). A summary of the results of the field and laboratory analytical data for metals in the drum contents samples is presented in Table b.

Table B
Results of Drum Contents Analysis
Field XRF and Laboratory TAL Metals Analysis
by Weston in 1993

Metal Analysis	Number of Drums Sampled for Field XRF/Number of Drums with Detections	Range of Field XRF Results	Number of Drums Sampled for Laboratory TAL Analysis/Number of Drums with Detections	Range of Laboratory TAL Metals Analysis Results
Cadmium	22 sampled/ 9 detections	220 to 790 mg/kg	21 sampled/ 11 detections	0.4 to 840 mg/kg
Chromium	22 sampled/ 7 detections	370 to 4,700 mg/kg	21 sampled/ 20 detections	2 to 8,800 mg/kg
Lead	22 sampled/ 9 detections	90 to 30,500 mg/kg	21 sampled/ 16 detections	5.7 to 44,000 mg/kg
Zinc	22 sampled/ 13 detections	130 to 7,200 mg/kg	21 sampled/ 21 detections	2.5 to 8,500 mg/kg

XRF TAL X-ray fluorescence

mg/kg

Total Analyte List milligrams per kilograms TCLP analysis was conducted on three solid drum samples (drums R1, R3, and D3). Cadmium was detected above the regulatory limit in leachate from drums R3 and D3, and chromium and lead were detected above regulatory limits in drum R3. The leachate from drum R1 did not exceed any regulatory limits (Roy F. Weston 1994).

Seven drums were tested for cyanide with the following results: five of the seven drums showed no cyanide detections, while two of the drums presented cyanide detections. Drum R1 showed 19,000 micrograms per kilogram ( $\mu g/kg$ ), and drum R2 showed 28,000  $\mu g/kg$  (Roy F. Weston 1994). One drum was tested for PCBs and the PCB Aroclor 1248 was detected at a concentration of 220  $\mu g/kg$  (Roy F. Weston 1994).

Forty-eight metal manufacturing debris samples (17 grab and 31 composite) were collected by Weston, and all were analyzed in the field using a Spectrace 9000 portable XRF. Twenty of these samples were selected for laboratory TAL metals analysis. The metal manufacturing debris material was dry, loose metal filings and shavings and dry, loose, very dark brown to black, fine-grained to medium-grained, sand-sized material (Roy F. Weston 1994). A summary of the results of the field and laboratory analytical data for metals in the Metal Manufacturing Debris samples is presented in Table C.

Table C
Results of Metal Manufacturing Debris Analysis
Field XRF and Laboratory TAL Metals Analysis
Weston 1994

Metal Analysis	Number of Samples for Field XRF/Number of Samples with Detections	Range of Field XRF Results	Number of Samples for Laboratory Tal Analysis/Number of Samples with Detections	Range of Laboratory TAL Metals Analysis Results
Cadmium	48 sampled/ 1 detections	190 mg/kg	22 sampled/ 7 detections	0.3 to 2.2 mg/kg
Chromium	58 sampled/ 10 detections	390 to 1,550 mg/kg	22 sampled/ 22 detections	31 to 3,500 mg/kg
Lead	58 sampled/ 10 detections	100 to 1,165 mg/kg	22 sampled/ 22 detections	11 to 2,100 mg/kg
Zinc	58 sampled/ 21 detections	120 to 690 mg/kg	22 sampled/ 21 detections	3.5 to 460 mg/kg

XRF

X-ray fluorescence Total Analyte List

TAL mg/kg

milligrams per kilograms

TCLP analysis was conducted on two metal manufacturing debris samples and did not reveal leachate concentrations of metals above regulatory limits (Roy F. Weston 1994). There were no TCLP analyses of soil samples.

Fifty-one soil samples (49 grab and 2 composite) were collected by Weston and screened in the field using a Spectrace 9000 portable XRF instrument. Nine of these soil samples were selected for laboratory TAL metals analysis. One soil sample was analyzed for PCBs. The soil samples were dry, loose, light brown to very dark brown or dark reddish-brown medium sand. Some samples were either fine-grained or coarse-grained sand (Roy F. Weston 1994). A summary of the results of the field and laboratory analytical data for metals in the soil samples is presented in Table D.

During the investigation one soil sample was analyzed for cyanide, but cyanide was not detected in the sample (Roy F. Weston 1994). Two soil samples were analyzed for PCBs, and one sample collected from a depth of 6 feet bgs had a detection of 38  $\mu$ g/kg of Aroclor 1248 (Roy F. Weston 1994).

Table D
Results of Soil Analysis
Field XRF and Laboratory TAL Metals Analysis
Weston 1994

Metal	Number of Samples for Field XRF/Number of Samples with Detections	Range of Field XRF Results	Number of Samples for Laboratory TAL Analysis/Number of Samples with Detections	Range of Laboratory TAL Metals Analysis Results
Cadmium	65 sampled/ 1 detection	210 mg/kg	11 sampled/ 3 detections	0.3 to 0.5 mg/kg
Chromium	51 sampled/ 0 detections	0.0 mg/kg	11 sampled/ 11 detections	1.5 to 170 mg/kg
Lead	65 sampled/ 1 detection	400 mg/kg	11 sampled/ 11 detections	5.5 to 600 mg/kg
Zinc	65 sampled/ 8 detections	120 to 150 mg/kg	11 sampled/ 11 detections	15 to 75 mg/kg

XRF

X-ray fluorescence Total Analyte List

TAL mg/kg

Total Analyte List milligrams per kilograms

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Weston installed three temporary piezometers by hand-auger in the area just east of Sand Creek where waste piles were observed. Shallow groundwater samples were collected from these temporary piezometers, and of the four target metals analyzed (cadmium, chromium, lead, zinc) only cadmium was found in one sample at a concentration of  $0.42 \,\mu g/L$  (Roy F. Weston 1994).

Two potential ACMs were collected for analysis. One sample did not contain asbestos while the second, a transite like piece of material, contained 20 percent chrysotile (Roy F. Weston 1994).

Geophysical surveys were conducted by Weston using an EM-31 ground conductivity meter to determine if an area of groundwater displayed characteristics of metal-laden water and to search for buried drums and other metal objects. No buried objects were identified (Roy F. Weston 1994).

Treatability studies were conducted on the drum contents, metal manufacturing debris, and soil to evaluate the potential of solidifying and burying the material on site.

Radiation monitoring occurred during the 1993 Weston field work, and a background level of 12 to 14 micro roentgens/hour ( $\mu$ R/hour) was established for the site area. The highest observed readings were less than 3 times background (Roy F. Weston 1994).

The conclusions drawn from the 1993 investigation include (Roy F. Weston 1994):

- At least two drums contain hazardous waste;
- The metals manufacturing debris piled on the site contains chromium above action levels, and less serious concentrations of lead and zinc;
- Metals in soils sampled at the site are close to natural concentrations and not above any benchmarks;
- There are isolated very low levels of cyanide and PCBs on site;
- Shallow groundwater at the site does not appear to be impacted by contaminants found at the site; and
- ACMs are found on site.

Based upon the results of the 1993 Weston investigation of the site, the EPA issued two Unilateral Administrative Orders for the Galley Road Dump site to Allan E. Pezoldt,

Svedala Industries, Inc., Western Growth Properties, and Wheaton College (Woodward-Clyde 1996). The first Unilateral Administrative Order was for site security and EPA Docket No. CERCLA-VIII-95-12 (UAO-12). Svedala contracted with Taylor Fence Incorporated of Colorado Springs, Colorado to install the fencing between April 14-18, 1995. Site security and the other requirement of UAO-12 were initiated on April 13 (Woodward-Clyde 1996). The fencing was removed on April 26, 1996 after all hazardous drum related material had been removed (Woodward-Clyde 1996).

<u>August 1996</u> – The four respondents, Allan E. Pezoldt, Svedala Industries, Inc., Western Growth Properties, and Wheaton College contracted a work plan that was approved by the EPA on August 8, 1995; however, subsequent negotiations between the parties broke down and Woodward-Clyde was contracted by Sveldala Industries, Inc., of Colorado Springs to implement the UAO-15 (EPA Docket No. CERCLA-VIII-95-15). UAO-15 mandated the following activities:

- Location and containment of all previously identified drums and drum-related materials;
- Excavation and removal of any additional drum and drum-related materials;
- Excavation and removal of ACMs and other contaminated materials;
- Conduction of waste profiling of waste streams;
- Evaluation of waste treatment/disposal options based on profile results;
- Establishment and maintenance of site controls to prevent further site releases;
- Compliance with transportation requirements for the disposal of site materials;
- Installation of groundwater monitoring wells to characterize groundwater at the site; and
- Collection of sediment samples from Sand Creek to document potential releases.

The modified work plan, which included the four major tasks of asbestos abatement, drum removal, sediment investigation, and groundwater investigation, was approved by the EPA on November 20, 1995 (Woodward-Clyde 1996).

Asbestos abatement activities conducted under the State of Colorado Abatement Permit No. 95EP2036A included sectioning the site and searching for friable ACM (Woodward-Clyde 1996). No friable ACM was found on the surface of the site. A subsurface

investigation for potential ACM also failed to produce evidence of friable ACM. Piles of material thought to contain ACM were sampled and 1 to 3 percent ACM was found in one waste pile on the site. A total of 950 6-mil poly bags of ACM waste (approximately 45 cubic yards) were disposed of at the Denver Arapahoe Disposal Site located in Aurora, Colorado (Appendix G) (Woodward-Clyde 1996).

Drum removal activities were contracted to (U.S. Pollution Control, Inc. (USPCI)/Laidlaw, and Aspen Analytical provided analytical services for chemical analysis of the drum contents (Woodward-Clyde 1996). Drum removal activities included a site walk-through to identify all visible drums, a subsurface investigation involving excavations to locate additional deteriorated drums, a container inventory, field screening, sampling and analysis of drum contents, non-hazardous drum removal and segregation, removal of two hazardous drums into three over-pack drums, drum disposal, and review of analytical data. Approximately 600 drums were located, and only two required removal as hazardous waste (Appendix G). The other drums were located and disposed of. Figure 6 shows the drum location map prepared by Woodward-Clyde for the final report for the site (Woodward-Clyde 1996).

The investigation of Sand Creek sediments occurred on November 28, 1995 with the collection of four sediment samples and one duplicate sediment sample. A background sample was not collected from an upstream location on Sand Creek. The sediment samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), cyanide, pesticides/ PCBs TAL metals, TCLP metals, and percent moisture. No impacts to the sediment of Sand Creek from contamination attributable to the Galley Road Dump site were documented by the analytical results of the samples (Woodward-Clyde 1996).

The shallow groundwater table investigation was accomplished by installing a total of six shallow groundwater monitoring wells between November 1995 and March 1996. All of the groundwater samples were analyzed for VOCs, SVOCs, cyanide, pesticides/PCBs, and TAL metals. No impacts to the shallow groundwater beneath the site attributable to the Galley Road Dump site were documented by the analytical results of the samples. The shallow groundwater flow was determined to be towards the southeast (Woodward-Clyde 1996).

The site work was finalized and accepted by the EPA. Identified hazardous wastes were removed from the site and disposed of properly. Hazardous waste manifests for the removed wastes are attached in Appendix G. The site removal activities addressed the ACM and drums on site, but not the piles of metal manufacture waste (foundry sand and shavings debris), tires, and other trash that did not contain metals at concentrations above benchmark levels (Woodward-Clyde 1996).

<u>July 1997</u> – Final Pollution Report for the site was prepared by Joyce Ackerman of the EPA Region 8 Office. The report summarized activities at the site and stated that the activities for this Removal Action for the Galley Road Dump site were considered complete as of July 1, 1997. The final disposal locations of the hazardous waste were listed as the following (EPA 1997d):

Asbestos Arapahoe County, Colorado

Hazardous Materials USPCI, Waynoka, Oklahoma

Non-hazardous Materials BFI, Fountain, Colorado

START conducted a site reconnaissance of the site on October 30, 2012. The START team noted that even though the site was posted, there was evidence of trespassers on site (Appendix A, Photos 1, 2, and 4). Trash (tires) remaining on the east bank of Sand Creek was observed from Babcock Road and Space Center Drive. The residential neighborhood directly north of the site and the presence of a day care center just west of the site was also documented (Appendix A, Photos 3 and 7). It was noted that water was flowing in Sand Creek at the site, but not further downstream where drainage improvement activities were documented (Appendix A, Photos 5 and 8).

#### 3.3 SITE GEOLOGY, HYDROGEOLOGY, HYDROLOGY, AND METEOROLOGY

#### 3.3.1 Geology

The Galley Road Dump site is located in the southern part of the Colorado Piedmont Section of the Great Plains physiographic providence. The site is located on the western edge of the asymmetrical, bowl shaped Denver Basin. The site is covered by the late Pleistocene Age Middle Alluvium. The Middle Alluvium is a brownish to yellow to grey-colored, poorly sorted sand with subordinate amounts of gravel that varies from 20 to 50 feet in thickness. The Middle Alluvium extends down the Sand Creek drainage and

continues southward downstream along Fountain Creek past the 15-mile downstream limit. Beneath the Middle Alluvium is found the bedrock units that all tilt to the north. The bedrock beneath the site begins with the eroded surface of the Dawson Formation, which is usually a brownish-grey pebbly arkosic sandstone mixed with clay stones and pebbly conglomerates. The Dawson Formation can be up to 1,000 feet thick when it has not been eroded but is probably only 100 or so feet thick at the site. Beneath the Dawson Formation is found the Laramie Formation, a 500- to 600-foot-thick sequence of sandstones and sandy shales. The Fox Hills Sandstone, approximately 150 feet of coarse-grained sandstone, is found beneath the Laramie Shale, and finally the Pierre Shale, approximately 5,000 feet of gray to dark gray marine shale, makes up the bedrock at the site (State of Colorado 2003). All of the formations above the Pierre Shale can be used as aquifers.

There are no recorded faults within 4 miles of the site (State of Colorado 2003).

## 3.3.2 Hydrogeology

A shallow groundwater aquifer is found in the 50-foot-thick Middle Alluvium at the site with groundwater encountered between an average of 10 to 24 feet bgs at the site (Aquasan 1992, URS 1993, Roy F. Weston, Inc. 1994, Woodward-Clyde 1996). The estimated hydraulic conductivity of the aquifer is  $10^{-2}$  centimeters per second (cm/sec) (Woodward-Clyde 1996). Groundwater flow direction in the shallow aquifer in the Middle Alluvium at the site has been documented to be to the southeast towards the Colorado Springs Municipal Airport (Woodward-Clyde 1996).

Groundwater is found in the next underlying formation, the Laramie Formation. Groundwater in this bedrock aquifer is confined and separated from the alluvial aquifer by a layer of claystone (Woodward-Clyde 1996). The estimated hydraulic conductivity of the confined Laramie aquifer is 10<sup>-4</sup> centimeters per second (cm/sec) (Woodward-Clyde 1996). Groundwater flow in the deeper bedrock aquifers (Laramie, Dawson Formation, and Fox Hills Sandstone) are expected to be to the north following the dip of the sedimentary rock beds into the Denver Basin (State of Colorado 2002).

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#### 3.3.3 Hydrology

The Galley Road Dump site is located on the south flank of the high part of an interfluve (drainage divide) between the South Platte River (Denver Basin) and the Arkansas Rivers (State of Colorado 2003). The site is relatively flat with a slight incline to the southwest (Appendix A, Photo 6). Surface water runoff from the east side of the site would flow into a series of storm drains along Space Center Drive then into Sand Creek. Surface water runoff from the west side of the site would flow directly into Sand Creek over the waste material that was determined not to require removal (Figure 1). Sand Creek is located on the western side of the Galley Road Dump Site and flows from north to south (Figure 1). Sand Creek is classified as an intermittent stream, because it does not flow continuously all year long. Flow in Sand Creek was observed in some locations and not at others during the site reconnaissance of October 2012 (Photos 5 and 6). There is no flow data available from the USGS for Sand Creek. Sand Creek flows through Colorado Springs to the southwest for approximately 5 miles until the confluence with Fountain Creek (Figure 3). Fountain Creek flows to the southeast completing the 15-mile downstream limit. The mean annual flow rate of Fountain Creek in 2011 was 108 cubic feet per second (cfs) (USGS 2012). Fountain Creek drains a large area of urban Colorado Springs.

#### 3.3.4 Meteorology

The Galley Road Dump Site is located in a semiarid climate zone. The mean annual precipitation as totaled from the University of Delaware (UD) database is 12.73 inches, and the net annual precipitation as calculated from precipitation and evapotranspiration data is 1.14 inches (UD 1986). The 2-year, 24-hour precipitation event for the area is 2 inches (Dunne and Leopold 1978).

The Galley Road Dump Site is covered in a moderately thick prairie vegetation of grasses and sagebrush (Photos 4 and 6). Cottonwood trees and brush are found along Sand Creek (Photos 1 and 5).

#### 4.0 PRELIMINARY PATHWAY ANALYSIS

#### 4.1 SOURCE CHARACTERIZATION

There were multiple sources identified at the site in the early 1990s that were removed in the 1996 removal action in accordance with all applicable rules and regulations (ARRs). There are currently no documented sources on site.

Two 55-gallon drums containing elevated concentrations of cadmium were identified, transferred to three overpack drums, and properly removed to USPCI in Waynoka, Oklahoma.

Approximately 45 cubic yards of ACM were identified and properly removed to the Denver Arapahoe Disposal Site in Aurora, Colorado.

Piles of foundry sand containing the metals cadmium, chromium, lead, and zinc at concentrations not above applicable state or federal health and environmental benchmarks were left on the site. Trash including used tires was also left on site.

There are no documented sources remaining on site.

#### 4.2 GROUNDWATER PATHWAY

There is a shallow groundwater aquifer found at the site at a depth on the order of 10 to 24 feet bgs. Groundwater flow in the shallow groundwater aquifer at the site is to the southeast towards Sand Creek. A confined aquifer in the Laramie Formation is separated from the shallow groundwater aquifer in the alluvium by a clay layer (Woodward-Clyde 1996).

There are an estimated 190 groundwater wells located within 4 miles of the site (State of Colorado 2012a) (Figure 4) (Appendix F). These wells could serve a maximum population of 41,214 persons. None of these wells are located between the site and Sand Creek (Figure 4). There is currently no evidence that anyone within the 4-mile radius of the site uses groundwater for domestic consumption. All of the development in the area, located northwest of the Colorado Springs Municipal Airport, is of recent vintage, probably not more than 20 years old.

Analytical data collected by Weston in 1993 and Woodward-Clyde in 1995-1996 indicated that there was no observable contamination of the shallow groundwater above applicable state and federal benchmarks that were attributable to the Galley Road Dump Site (Roy F. Weston 1994, Woodward-Clyde 1996).

No shallow groundwater samples have been collected since 1996. Conditions can change within 17 years, but no attributable source of contamination remains on the site, and the remaining waste piles do not contain metal concentrations above applicable state and federal health and environmental benchmarks.

No background groundwater samples were collected from the shallow groundwater to determine if elevated concentrations of potential contaminants exist in the shallow groundwater at the site.

#### 4.3 SURFACE WATER PATHWAY

The 15-mile target distance limit downstream of the Galley Road Dump site is shown in Figure 3. Sand Creek is an intermittent stream with dry sections and flowing sections (Appendix A, Photos 5 and 6). There is no record of any use of water in Sand Creek or of any fishing from Sand Creek. Surface water is diverted for irrigation and stock watering from Fountain Creek downstream of the confluence with Sand Creek. Fountain Creek is a limited fishery (less than 200 pounds per mile) for Rainbow Trout, Brown Trout, Small Mouth Bass, Sunfish, and Bluegill (State of Colorado 2012b).

The National Wetlands Inventory shows a continuous string of streamside riverine wetlands beginning at Galley Road, on the north side of the site, almost continuously to the end of the 15-mile downstream limit (Appendix E) (U.S. Fish and Wildlife Service, National Wetlands Inventory 2012).

Threatened and endangered species found in El Paso County Colorado include the following:

Table E Threatened and Endangered Species in El Paso County, Colorado

Species	Status
Preble's meadow jumping mouse	Threatened
Mexican Spotted Owl	Threatened
Piping Plover	Threatened
Least Tern	Endangered
Green-back Cutthroat Trout	Threatened
Ute Ladies Tresses	Threatened
Pawnee Montane Skipper	Threatened

(U.S. FWS, 2013)

No record of surface water samples collected from the Galley Road Dump site or Sand Creek have been located. Four sediment samples from Sand Creek adjacent to the Galley Road Dump site were collected on November 29, 1995 and all were analyzed for VOCs, SVOCs, cyanide, pesticides/PCBs, TAL metals, TCLP Metals, and percent moisture (Table F). There was one detection of a volatile compound (dichloromethane), no detections of SVOCs, and no detections of pesticides or PCBs (Woodward-Clyde 1996). Detections of dichloromethane and metals were not at elevated concentrations or above health-based benchmarks (Colorado Soil Evaluation Values, EPA Regional Screening Level [RSL] Resident and Soil Table, and EPA RSL Industrial Soil Table) were documented in the sample results (State of Colorado 2011, EPA 2012a, EPA 2012b, Woodward-Clyde 1996). The analytical data has not been validated and no record of the locations of the samples has been found. The analytical data suggest that there was no migration of contamination from the uncontrolled waste piles and waste areas on the site prior to cleanup activities.

An identified data gap for the surface water pathway is the potential of site contaminants migrating via the surface water pathway during and after cleanup activities have modified site topography.

#### 4.4 SOIL EXPOSURE PATHWAY

Most of the surface of the site is open soil covered by moderately sparse dry land vegetation (Appendix A, Photos 1, 2, 4, and 6). The site is posted, but there is evidence of public access to the site by foot and bicycle (Appendix A, Photos 1, 2, and 4). Well-worn pathways lead across the site paralleling both sides of Sand Creek.

Soil sampling conducted by Roy F. Weston, Inc. in 1993 and Woodward-Clyde in 1995 indicated that the soil remaining on the site had concentrations of metals close to background levels documented by the USGS for the area (USGS 1984, Roy F. Weston. Inc. 1994, Woodward-Clyde 1996). The nearest residences to the site are located directly across Galley Road from the site (Appendix A, Photo 3) (Figure 1). Approximately 100 homes are located within 1 mile of the site to the north and northwest. A child-care facility, White Oaks Academy, is located on Babcock Road just west of the site (Appendix A, Photo 7). Two office park style buildings are located on the site, one on the northeast corner of the site and another newer office park on the southwest corner of the site (Figure 1). Table E above lists the Threatened and Endangered Species found in El Paso County, Colorado.

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TABLE F Sand Creek Sediment Samples collected by Woodward-Clyde in 1995 and Detections

Analytes	Sand Creek Sediment Sample SC-01	Sand Creek Sediment Sample SC-02	Sand Creek Sediment Sample SC-03	Sand Creek Sediment Sample SC-04	CSEV Worker	RSL Residential (11/2012)	RSL Industrial (11/2012)
Arsenic mg/kg	1.5 U	1.5 U	1.5 U	1.4 U	1.8	0.39	1.6
Cadmium mg/kg	0.09 U	0.09 U	0.09 U	0.09 U	770	70	800
Chromium mg/kg	0.36	0.36	0.25	0.38	1,500,000		-
Lead mg/kg	2.0	5.4	2.0 U	2.7	800	400	800
Zinc mg/kg	8.5	7.8	6.4	7.1	310,000	23,000	310,000
Dichloromethane μg/kg	300 J	220 J	250 J	330 J	-	-	-

milligrams per kilogram/parts per million mg/kg

µg/kg micrograms per kilograms/parts per billion

The associated numerical value is an estimated quantity because quality control criteria were not met. Presence of the element is reliable.

The analyte was not detected at or above the Contract Required Detection Limit (CRDL).

Colorado Soil Evaluation Values **CSEV** 

EPA Regional Screening Levels

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#### 4.5 AIR PATHWAY

Most of the surface of the site is open soil covered by moderately sparse dry land vegetation (Appendix A, Photos 1, 2, 4, and 6). ACM was removed from the site, and the piles of waste material left on site were documented not to have concentrations of contaminants above applicable state and federal health or environmental based benchmarks.

Particulate matter from the soil could become airborne and be transported off site. Table E above lists the Threatened and Endangered Species found in El Paso County, Colorado. The nearest occupied residences are located immediately north of the site on the north side of Galley Road (Appendix A, Photo 3) (Figure 1). The White Oaks Academy preschool day care facility is located immediately west of the site on Babcock Road (Appendix A, Photo 7). Wetlands are found on site and on Sand Creek downstream of the site within the 4-mile radius of the site (Appendix E). There are no records of sensitive environments on the site.

#### 5.0 SUMMARY

The Galley Road Dump site covers approximately 97.85 acres and is located in southeast Colorado Springs, Colorado. The site is located in a recently developed area of Colorado Springs, northwest of Peterson Air Force Base and the Colorado Springs Municipal Airport. The site is adjacent to Sand Creek on the west, with residential areas north and northwest of the site and commercial properties located east and south of the site.

The site was historically used for ranching until the mid-1960s when the owner allowed surplus missile launchers to be stored on the property. Shortly after that the owner began allowing the dumping of household, commercial, and industrial waste on the site until the mid-1980s.

In 1991 the EPA determined that a 23-acre area on the west part of the site along the east bank of Sand Creek contained waste piles, including drums, ACM, foundry sands, and tires. A series of environmental investigations that had begun in 1989 and continued through 1995 resulted in a characterization and removal actions at the site.

Drums, waste piles, soil, sediment, and groundwater were tested for VOCs, SVOCs, cyanide, pesticides/PCBs, TAL metals, and where appropriate TCLP metals. Asbestos testing of materials and soils, geophysical and radiation surveys, and limited excavations searching for buried wastes were conducted.

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The investigations identified ACM waste, of which approximately 45 cubic yards of material was removed to a licensed landfill, and two drums of solid waste with elevated concentrations of cadmium were removed to a licensed facility. An additional 600 drums of non-hazardous material were removed to

a landfill.

Analytical testing of the soil on site, shallow groundwater beneath the site, and sediment in nearby Sand Creek for VOCs, SVOCs, cyanide, pesticides/PCBs, and TAL metals did not reveal any detections above applicable state and federal health and environmental benchmarks. The investigators concluded that the

contamination on the site had not impacted the soil, surface water, or groundwater pathways.

The removal action left behind piles of metal manufacturing waste (foundry sands and metal shavings) and used tires primarily along the eastern bank of Sand Creek. Residential housing is located immediately north and northwest of the site. The property is currently posted, but is used as a short-cut pathway by pedestrians and cyclists. It is possible that low levels of contamination found in the waste piles left on the site could be encountered by trespassers or enter Sand Creek by overland flow or erosion. Because the site is covered by sparse arid vegetation, it is possible that particulate matter from the site could be blown

about by the wind.

There is no data available that documents the presence of any source on the site. There were no background samples collected for the soil, surface water, and groundwater pathways to document the presence or absence of elevated concentrations in these pathways. Analytical data collected from the site

was only compared to applicable state and federal benchmarks.

The waste piles that were determined during the 1990s not to be hazardous that were left in place along the east banks of Sand Creek. These piles could have been eroded during the intervening years and as a result could have exposed deeper layers of material that was not sampled or detected during the site investigation and removal activities conducted during the 1990s. If any potentially contaminated material has been exposed it is possible that this material could enter Sand Creek by the mechanism of surface

water erosion. There is currently no evidence to support this potential scenario.

Collection of in-situ screening XRF field analytical data from background locations and on-site locations could possibly define whether or not sources remained on site and if these potential sources have imported the sail surface vector pathyrous

impacted the soil, surface water pathways.

#### 6.0 LIST OF REFERENCES

Aquasan Network, Inc. 1992. Phase II Environmental Site Assessment for Science Park Property, Colorado Springs, Colorado. September 11, 1992.

Dunne, T. and L.B. Leopold. 1978. Water and Environmental Planning. W. H. Freeman and Company, San Francisco.

Ecology and Environment, Inc. (E&E). 1991. Sampling Activities and analytical Results Report for the galley Road Dump Site, Colorado Springs, Colorado. September 20, 1991.

Ecology and Environment, Inc. (E&E). 1995. Sample Results for Galley Road site; TDD T08-9510-014.

Office of the Federal Register (OFR). 1990. Code of Federal Regulation (CFR) 40, Part 300, AHazard Ranking System (HRS) for Uncontrolled Hazardous Substances Releases. Appendix A of the National Oil and Hazardous Substance Release Contingency Plan; Final Rule, December 14, 1990.

Roy F. Weston, Inc. Research Engineering Analytical Contract (REAC). 1994. Final Report Sampling, Geophysics, and Treatability Investigation, Galley Road Dump Site, Colorado Springs, Colorado, March 1994. Volume 1 of 2: Technical Report.

State of Colorado, Department of Natural Resources, Colorado Geological Survey. 2003. Geologic Map of the Elsmere Quadrangle, El Paso County, Colorado. Open-File Report 02-2.

State of Colorado, Department of Public Health and Environment (CDPHE). 2011. Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division. Table 1. Colorado Soil Evaluation Values (CSEV Table) – July 2011

State of Colorado, Department of Natural Resources, Division of Water Resources. 2012a. AQUAMAP.

State of Colorado, Department of Natural Resources, Parks and Wildlife . 2012b. Sensitive Environment and Fishery Production Data.

U.S. Environmental Protection Agency (EPA). 1991a. Guidance for Performing Preliminary Assessments under CERCLA. EPA/540/G-91/013. September 1991.

U.S. Environmental Protection Agency (EPA). 1991b. The Revised Hazard Ranking System: Evaluating Sites After Waste Removals. Publication 9345.1-03FS.

- U.S. Environmental Protection Agency (EPA). 1997a. Memorandum from Joyce Ackerman to Tom Sitz. RE; Galley Road Dump Site. January 22, 1997.
- U.S. Environmental Protection Agency (EPA). 1997b. Memo from Joyce Ackerman to Dr. Chris Weis, RE Galley Road Dump Site. June 4, 1997.
- U.S. Environmental Protection Agency (EPA). 1997c. Letter from Max H. Dodson: Completion of Removal Action, Galley Road Dump Site, Colorado Springs, Colorado. June 30, 1997.
- U.S. Environmental Protection Agency (EPA). 1997d. Final Pollution Report (POLREP) Galley Road Dump Site. July 14, 1997.
- U.S. Environmental Protection Agency (EPA). 2004. Superfund Chemical Data Matrix. Updated January 28, 2004. http://www.epa.gov/superfund/sites/npl/hrsres/tools/app bii.pdf
- U.S. Environmental Protection Agency (EPA). 2012a. Regional Screening Level (RSL) Industrial Soil Table, November 2012.
- U.S. Environmental Protection Agency (EPA). 2012b. Regional Screening Level (RSL) Residential Soil Table, November 2012.
- U.S. Fish and Wildlife Service (FWS), National Wetlands Inventory. 2012. http://107.20.228.18/ Wetlands/WetlandsMapper.html
- U.S. Fish and Wildlife Service (FWS), Species by County Report. 2013. http://ecos.fws.gov/tess\_public/countySearch!speciesByCountyReport.action?fips=08041
- U.S. Geological Survey (USGS). 1982. Environmental Geology of the Front Range Urban Corridor and Vicinity, Colorado. USGS Professional Paper 1230.
- U.S. Geological Survey (USGS). 1984. Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States. USGS Professional Paper 1270.
- U.S. Geological Survey (USGS). 2010. 7.5-Minute Quadrangle Map, Elsmere, Colorado.
- U.S. Geological Survey (USGS). 2012. Water Data for the Nation. http://waterdata.usgs.gov/nwis.

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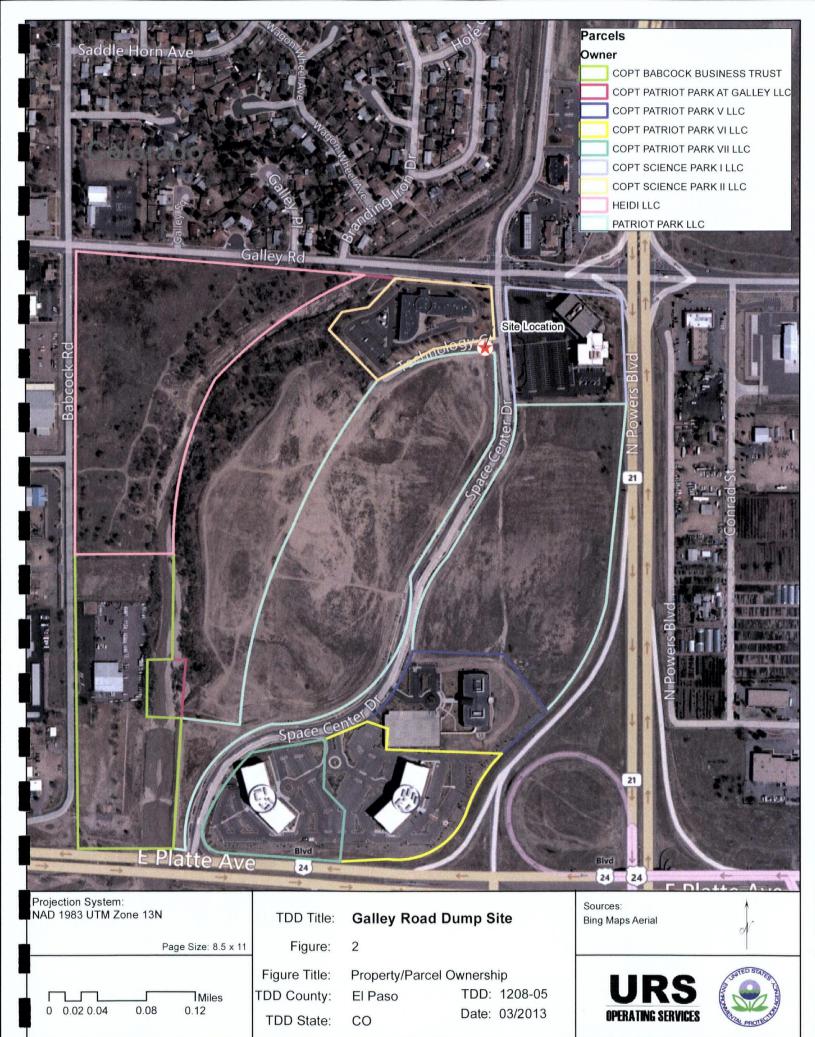
University of Delaware, Center for Climate Research, Department of Geography. 1986. Terrestrial Water Budget Data Archive; Version 1.01, compiled by C. J. Willmott and C. M. Rowe.

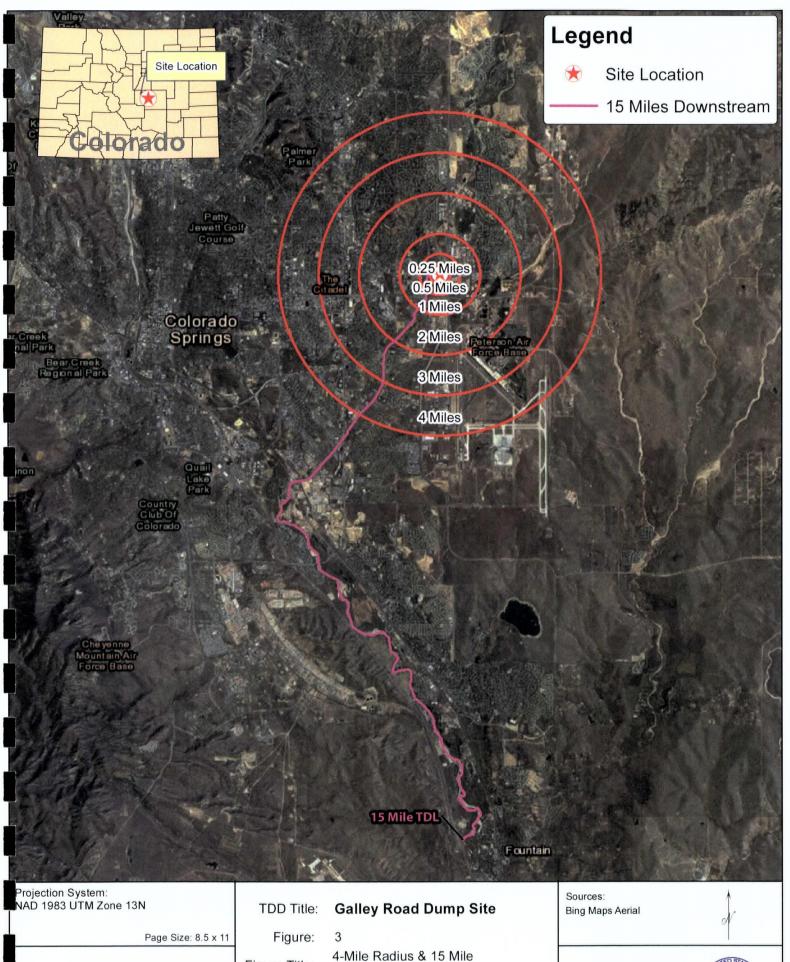
URS Consultants (RS). 1993. Preliminary Assessment, Galley Road Dump, Colorado Springs, Colorado. June 16, 1993.

URS Operating Services, Inc. (UOS). 2012. Site visit/reconnaissance, By B. Hayhurst and Z. Gustafson. October 30, 2012.

Woodward-Clyde Consultants. 1996. Final Report Galley Road Dump Site, Colorado Springs, Colorado. August 1996.







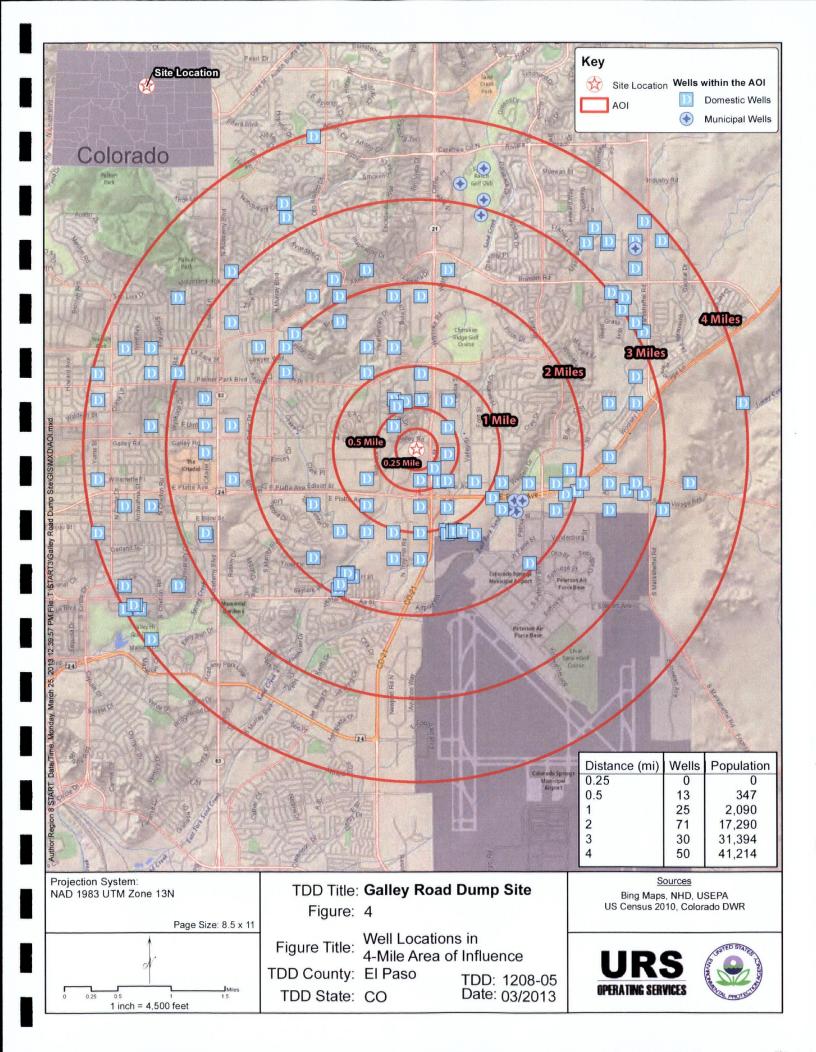
Miles 0 0.5 1 2 3

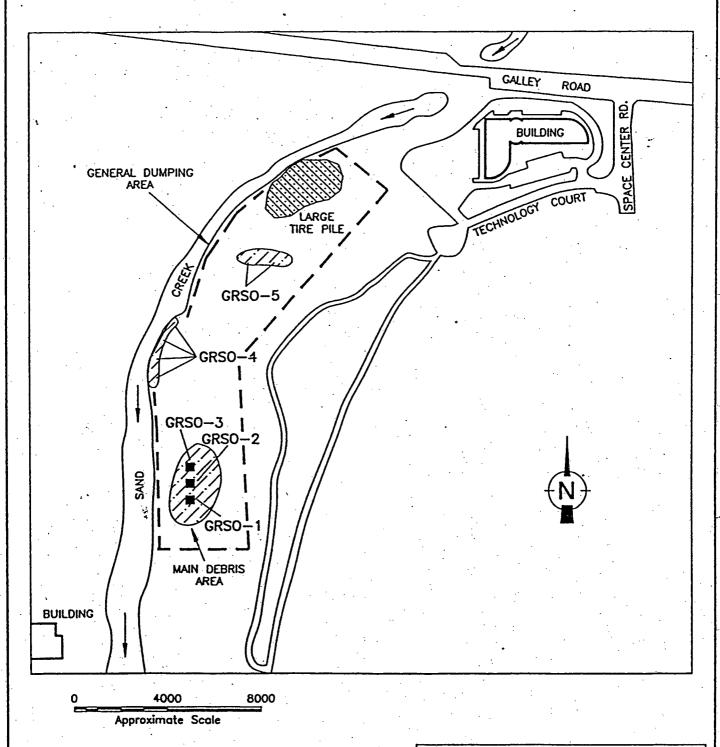
Figure Title: 4-Mile Radius & 15 Mile Downstream Segment

TDD County: El Paso TDD: 1208-05
TDD State: CO Date: 03/2013









LEGEND

Soil sample location

**URS Operating Services** 

Figure 5

TAT Sample Locations 1991 with Locations of Waste Areas From: Ecology and Environment 1991

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE, REMOVAL AND PREVENTION EPA CONTRACT 68-WO-0037

TITLE:

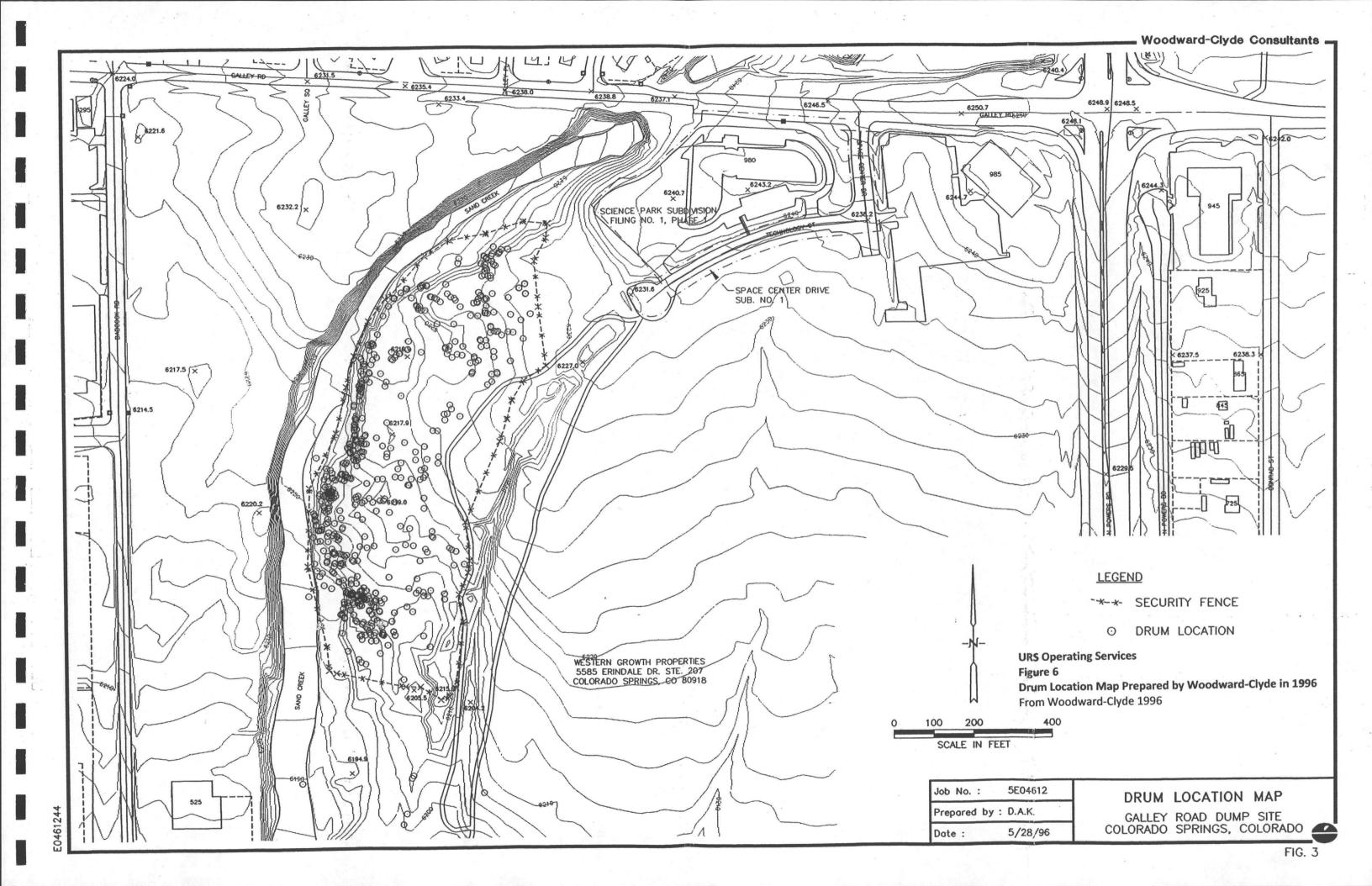
GALLEY ROAD DUMP SITE Colorado Springs, Colorado SAMPLE LOCATION MAP

T.D.D. T08-9108-007

ecology & environment, inc. DENVER, COLORADO

FIG. 2

Date: 09/91 Drawn by: RSM Scale:



Appendix A Project Photolog

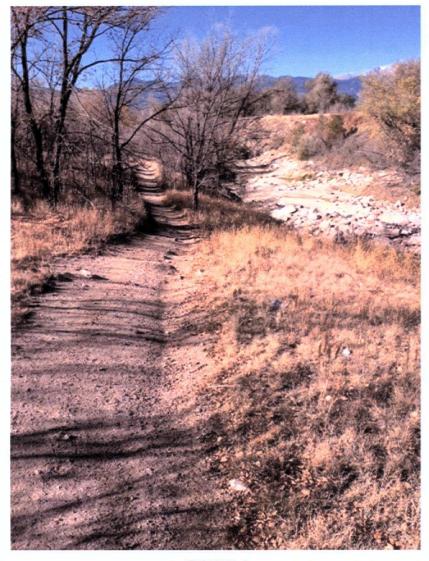


PHOTO 1

Pathway entering the Galley Road Dump site from Galley Road along the east side of Sand Creek.

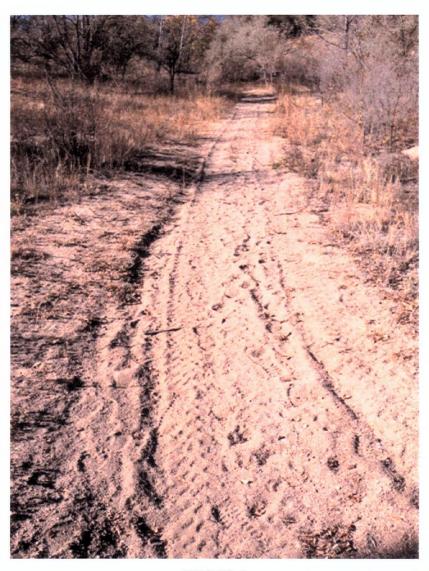


PHOTO 2

Pathway entering site from Galley Road showing tire tracks and footprints in the sandy soil.

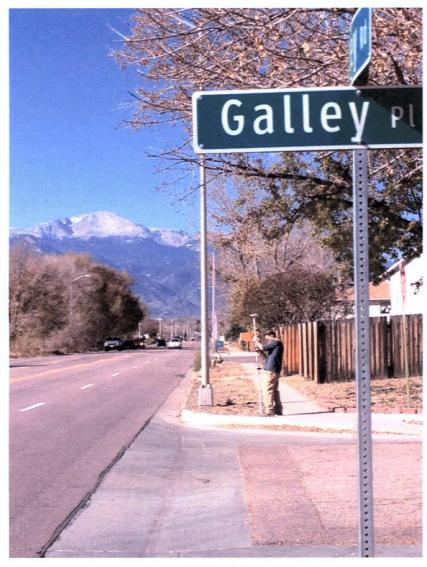


PHOTO 3

Nearest residences to the site at along the north side of Galley Road

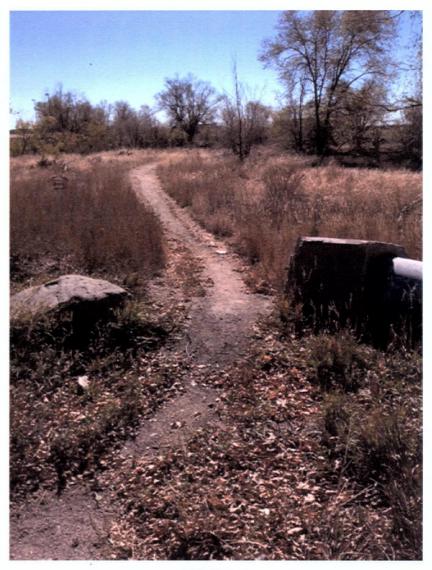


PHOTO 4

Pathway leading into the Galley Road Dump site on the west side of Sand Creek



PHOTO 5
Sand Creek above Galley Road-background location-note water in stream.



PHOTO 6
Sand Creek from East Platte Avenue Bridge. Note lack of water in stream. View to the northwest across the Galley Road Dump site.



PHOTO 7

Day care facility on Babcock Road west side of site.



PHOTO 8

Construction and channelization work being conducted on Sand Creek downstream of the site.

Appendix B
CERCLA Authority Checklist

#### **CERCLA Authority Checklist**

Complete the following checklist. If an answer is checked "yes", then the site may not be appropriate for an assessment under CERCLA authority without further justification. Please explain each answer checked "yes" in section 2.0

l.0:		Y	N
1.	Has this site been previously entered into CERCLIS or is it part of or adjacent to an existing CERCLIS site?	X	
2.	Is this site part of a National Priority List-site?	X	
3.	Is the release or threat of release a result of naturally occurring substances in its unaltered form, or altered solely through naturally occurring processes of phenomena, from a location where it is naturally found?		X
4.	Is the release or threat of release a result of products that are part of the structure of, and result in exposure within, residential buildings or business or community structures?		X
5.	Does the release or threat of release affect public or private drinking water supplies due to deterioration of the system through ordinary use?		X
6.	Do the hazardous substances that pose a threat of release result in exposure to persons solely within a workplace, with respect to a claim which such persons may assert against their employer?		X
7.	Are the hazardous substances that pose a threat of release a result of emissions from engine exhaust of a motor vehicle, rolling stock, aircraft, vessel, or pipeline pumping station engine?		X
8.	Are the hazardous substances that pose a threat of release the result of a source, byproduct or special nuclear material from any processing site designated under section 102(a) (1) or 302 (a) of the Uranium Mill Tailings Radiation Control Act of 1978?		X
9.	Are the hazardous substances that pose a threat of release the result of the normal application of fertilizer?		X
10	. Is another program actively involved with the site (e.g., another Federal, State, or Tribal programs)?		X
11	Are the hazardous substances potentially released at the site covered under a statutory exclusion (e.g., petroleum, natural gas, natural gas liquids, and synthetic gas usable for fuel)?		X
12	Are the hazardous substances potentially released at the site excluded by policy consideration (e.g., deferral to RCRA Corrective Action)?		X
13	. Is there sufficient documentation that clearly demonstrates there is no potential for a release that could cause adverse environmental or human health impacts?		X

2.0: Briefly explain all "yes" answers, include question number for reference.

Questions 1 and 2: CERCLA site # COD983785494

Is the site eligible for an assessment under CERCLA authority? Please indicate: Yes✓ or No.

Appendix C
Preliminary Assessment Reconnaissance Form



## **Preliminary Assessment Reconnaissance Form**

<b>CERCLIS</b>	Number
----------------	--------

COD983785494

☐ Federal Program

□ Incidental

☑ Other \_

☐ Not Specified

						-	State	СО	Site Spill ID:
				CERCLIS Discovery	Date	: 1991			
1. Site Evaluator	Information	n							
Name of Evaluator (s): B. Ha Gustafson	ayhurst and Zach	A	gency/Org	anization: START/UO	S	Date	te Prepared: October 31, 2012		
Street Address: Galley Road Drive	and Space Center	enter City: Colorado Springs State: Colorado							
Name of EPA or State Agend Annette Barnard	cy Contact:	S E	treet Addro PA Region	ess: 1 VII, 1595 Wynkoop S	St.				
City: Denver		· s	tate: CO			Telep	ohone:	(303) 31	2-6321
2. General Site In	formation								
Site Conditions - include site	structures, surfac	e type (e	e.g. pavem	ent, gravel, sand), activ	vities	, operations	etc:		
The 72 acre site is largely co office complexes have been recently been urbanized and  The undeveloped area of the north of the area, a day care piles or bermed material alor	constructed on the is less than 1 mile site is posted, but center immediately	site, on from th evidency west o	e on the note Coloradorse of footpare	ortheast corner and the o Springs Municipal Ai ath entering the site we r, and commercial buil	other rport re ob dings	r on the sout t and Peterso served. A re s on all other	h cent on Air esiden	ral side o Force Ba tial area	of the site. The area has ase.
Weather Conditions on day v	visited: Sunny and	mild wi	th only a s	light breeze from the w	vest				
Site Name: Galley Road Dur	np Site		Street Ad	ldress: Galley Road					
City: Colorado Springs			State: CC	Zip Code:		ounty: El	Co. (	Code	Cong. Dist:
Latitude: 38.844 Longitud	le: -104.725		Approxim	mate Area of Site: Status of Site			ite:		
Coordinate Location and Source: USGS 2010 97			Acres ☐ Active ☐ Not Specified ☐ Inactive ☐ NA (GW, plume, etc.)						
	<del></del>			***************************************					
3. Owner/Operato	r Informat	ion							
Owner: Corporate Office Properties Trust			Operator: NA						
Street Address: 6711 Columbia Gateway Dr.	·			Street Address:					
City: Columbia				City:					
State: Maryland	Zip Code:	Teleph	one	State:		Zip Code:	. [	Telepho	ne

Information presented in this form represents field observations and approximations that will be verified at a later date.

How Initially Identified:

☐ PA Petition

☐ Citizen Complaint

☐ State/Local Program

☐ RCRA, CERCLA Notification

433-285-5400

Type of Ownership:

☑ Private

Name

☐ State

□ Indian

☐ Federal Agency

21046

☐ County

□ Other \_

☐ Municipal

□ Not Specified

$\wedge$	
(	
-	4

**CERCLIS Number:** 

Page 2 of 5		
4. General Site Characteristics		
Predominant Land Uses Within One Mile of Site(Check at Industrial	eral Facility	Years of Operation:  Beginning Year 1960 ?  Ending Year 1980  Unknown
□ Lumber and Wood Products □ Inorganic Chemicals □ Plastic and/or Rubber Products □ Paints, Varnishes ■ Industrial Organic Chemicals □ Agricultural Chemicals	Junk/Salvage Yard Municipal Landfill I Other Landfill DOD	Waste Generated:  On site Off-site On site and off-site  Waste Deposition Authorized By: Present Owner Former Owner Present & Former Owner Unauthorized Custer County Roads &
(e.g., adhesives, explosives, ink)    Primary Metals   Metal Coating, Plating, Engraving   Metal Forging, Stamping   Fabricated Structural Metal Products   Electronic Equipment	Subtitle D Municipal	Bridges  Waste Accessible to the Public:  Yes  No (on site) Unknown if off-site disposal is accessible to public.
□ Coal □	AConverter@ AProtective Filer@ ANon- or Late Filer@ Not Specified	Distance to Nearest Dwelling, School, or Workplace:

of page 5, if it may be helpful for developing the conceptual site model.

S E	PA Preliminary Asse Page 3 of 5		issanc	e Form	CERCLIS N		
6. V	Vaste Characteristics Info	rmation					
(Chec	te Type: ck all that apply)  Landfill  Surface Impoundment  Drums  Tanks and Non-Drum Containers  Chemical Waste Pile  Scrap Metal or Junk Pile  Tailings Pile  Trash Pile (open dump)	Source Waste Quantity: (Include units)		✓ Metals  □ Organics  □ Inorganics  □ Solvents  □ Paints/Pign  □ Laboratory.  □ Radioactive	nents /Hospital Waste	☐ Pesti ☐ Acid ☐ Oily ☐ Mun ☐ Mini ☐ Expl	icides/Herbicides ls/Bases Waste icipal Waste ing Waste
	Land Treatment Contaminated Groundwater Plume (unidentified source) Contaminated Surface Water/Sediment (unidentified source) Contaminated Soil No Sources Other * C = Constituent W = Waste strean			Physical State of Solid	of Waste as Depo □ Slu □ Gas	dge	eck all that apply):

7. Groundwater Pathw	yay		
Is Groundwater Used for Drinking Water Within 4 Miles?	Is There a Suspected Release to Groundwater?	Estimate Target Population Served by Gr From wells at:*	oundwater Withdrawn
□ Yes ☑ No	☐ Yes ☑ No	Municipal	Private
Type of Drinking Water Wells Within 4 Miles (Check all that	Have Potential Target Drinking Water Wells Been Identified?	0 – 1/4 Mile <u>0</u> > 1/4 – 1/2 Mile 0	
apply):	☑ Yes	> 1/2 – 1 Mile 0	2,090
☐ Municipal ☑ Private ☐ None	If yes, Enter Potential Target Population:	> 1 - 2 Mile 0 > 2 - 3 Miles 0	
Depth to Shallowest Aquifer:	Nearest Designated Wellhead Protection	> 3 - 4 Miles 0	31,394
10 ft.	Area:		
Karst Terrain/Aquifer Present:	☐ Underlies Site ☐ > 0 - 4 Miles	Total Within 4 Miles	92,335
□ Yes ☑ No	☑ None Within 4 Miles	*Consider wells used for drinking wat	er only

Information presented in this form represents field observations and approximations that will be verified at a later date.

FPA

### Preliminary Assessment Reconnaissance Form COD983785494

**CERCLIS Number:** 

Page 4 of 5			
8. Surface Water Pathway			
Type of Surface Water Draining Site and 15 Miles (Check all that apply):  ☑ Stream ☐ River ☐ Pond ☐ Bay ☐ Ocean ☐ Other	□ Lake	Shortest Overland I	Pistance From Any Source To Surface Water:  Feet  Miles
Is There a Suspected Release to Surface Water?  ☑ Yes □ No □ Unknown			00-year Floodplain 00-year Floodplain
Drinking Water Intakes Located Along the Surface Path: □ Yes ☑ No Have Potential Target Drinking Water Intakes Been □ Yes ☑ No If Yes, Enter Population Served by Potential Target <u>0</u> People	Identified:	Fisheries Located A  Yes  No	long the Surface Water Migration Path:
Wetlands Located Along the Surface Water Migrati  ✓ Yes  □ No □ Unknown  List Potential Target Wetlands:	☑ Ye	es O	ocated Along the Surface Water Migration Path:
Water Body         Flow (cfs)         Frontage           Sand Creek         NA         9           Fountain Creek         108         20	Miles Water Box	untain Creek 108	Sensitive Environment Type
9. Soil Exposure Pathway			,
Are People Occupying Residences or Attending School or Daycare On or Within 200 Feet of Areas of Known or Suspected Contamination:   Pes No	Number of Workers 0 ☐ None ☑ 1 - 100 ☐ 101 - 1,000 ☐ >1,000	Within 20 Contamir □	Yes No
If Yes, Enter Total Resident Population:		If Yes, Li	st Each Terrestrial Sensitive Environment:

People (part-time



### **EPA**

## Preliminary Assessment Reconnaissance Form Page 5 of 5

**CERCLIS Number:** 

COD983785494

10. Air Pathway

Is There a Suspected Rele ☐ Yes · ☐ No	ease to Air:	Wetlands Located Within ☑ Yes □ No	n 4 Miles of the Site:						
		□ Unknown	<u> </u>						
Enter Total Population O	n or Within:	Other Sensitive Environ							
On Site	0	☑ Yes							
0 – 1/4 Mile	20	□ No	□ No						
>1/4 – 1/2 Mile 100		· □ Unknown							
>1/2 Mile - 1 Mile	2,000	List All Sensitive Enviro	nments Within 1/2 Mile of the Site:						
>1 - 2 Miles	3,500	<u>Distance</u>	Sensitive Environment Type/Wetlands Area (acres)						
>2 - 3 Miles	7,000								
>3 - 4 Miles	19,000	On Site	wetlands on Sand Creek 2000 feet streamside riverine wetlands						
Total Within 4 Miles	31,620		·						
		0 – 1/4 Mile	wetlands on Sand Creek 5000 feet streamside riverine wetlands						
	,								
		> 1/4 - 1/2 Mile wetlands on Sand Creek 5000 feet streamside riverine wetlands							
	•								

Appendix D PA Report Form 2050-0095

OMB Approval Number: 2050-0095 Approved for Use Through:

Sales Barrell				<del></del>		Identific	antinu	
EPA F	Datanti.	al III oro		Wa	ata Sita	lueniiji	anon :	
		ai Haza nary As			ste Site Form	Galley Road Dump Site		
		•				State	Site Number	
		· .	CERCLIS	Discover	y Date: 1991	co	COD983785494	
			CERCEIO	J1300 VC1	y Date. 1771			
1. General Site Info	rmation							
Name:				of the in	tersection of Galle	ey Road and S	Space Center Drive	
Galley Road Dump Site		Colorado Spri				<del> </del>		
City: Colorado Springs		State: Colorado	Zip Code		County: El Paso	Co. Code	Cong. Dist:	
Latitude: Longitude:		Approximate	Area of Site	:	Status of Site:	<u> </u>	_ ` 1	
·	•	97Acr	res ·	.				
38.844 N 104.7	<u> 125 W</u>	4,225,500 Sq	ouare Feet		☐ Active	☐ Not Spe	ecified	
· .			June 1 01.		Inactive	□ NA (G	W, plume, etc.)	
2. Owner/Operator	 Informati	on			-			
Owner: Corporate Office Properties	Trust		Operator: sa	ame				
Street Address: 6711 Columbia Gateway Dr			Street Addr	ess:				
City: Columbia			City:	<del></del>		,		
State: Zip Code: 21046	Telephone:	;	State:		Zip Code:	Telephone		
Maryland Type of Ownership:	433-285-54	100	How Initiall	ly Identif		•		
	<del>-</del>	ļ		☐ Citizen Complaint ☐ Federal Program				
	County		☐ PA Petition ☐ State/Local Program			☐ Incidental ☐ Not Specified		
	☐Municipal ☐Not Specifie	.d						
	Other	1	☐ RCRA, CERCLA Notification ■ Other				ther	
☐ Indian								
3. Site Evaluator Inj	<u></u>				····			
Name of Evaluator: B. Hayhurst		ganization: STA	<del>,                                      </del>			: December 2012		
Street Address: 999 18th St., Suite			City: Denve					
Name of EPA or State Agency Cont Maple (Annette) Barnard	tact:		Street Addre	Street Address: 1595 Wynkoop St., Denver, CO 80202			)202	
City: Denver	•		State: CO		Telephone: 303	3-312-6321		
4. Site Disposition (	for EPA i	use only)						
Emergency Response/Removal	CERCLIS Re	commendation:	:	Signatu	ire:			
Assessment Recommendation:	☐ Highe	er Priority SI	İ				•	
,		r Priority SI	i	<b> </b> ,				
☐ Yes☐ No	□ NFRA		Name (typed):					
Date	Other							
	Date	·	Position:					
.]	1							



# EPA Potential Hazardous Waste Site

<b>CERCLIS</b> Number:
COD983785494

·	Prelin	inary A	Assessment F	orm	- Page 2 of 4	
5. General Si	ite Charactei	istics				
Predominant Land Uses  Industrial	Within One Mile of	Site(Check	all that apply):	Site	Setting:	Years of Operation:
■ Commercial	Mining		ederal Facility		■ Urban □ Suburban	Beginning Year <u>1960s</u>
■ Residential	■ DOD				Rural	Ending Year <u>1980s</u>
Forest/Fields	DOE	Other _		-		Unknown
Type of Site Operations	(Check all that appl	y):				Waste Generated:
☐ Manufacturing (mu ☐ Lumber and	st check subcategor Wood Products	y)	☐ Retail ☐ Recycling			Off-site
■ Inorganic Cl	hemicals		☐Junk/Salvage Yar	·d		On site and off-site  Waste Deposition Authorized By:
☐Plastic and/o	or Rubber Products		Municipal Landfi			Present Owner
☐ Paints, Varn	ishes rganic Chemicals		☐ Other Landfill ☐ DOD			Former Owner
☐ Agricultural			DOE			Present & Former Owner
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	cides, fertilizers)		□DOI			Unauthorized Unknown
_	us Chemical Productives, in		☐ Other Federal Fac	cility _	<del></del>	Waste Accessible to the Public:
■ Primary Me		,	☐ Treatment, St	toraga	or Disposal	■ Yes
1	ng, Plating, Engravi	nø .	Large Quanti	•	-	☐ No (on site) Unknown if
☐ Metal Forgii		•••	☐ Small Quanti			off-site disposal is
	tructural Metal Pro	ducts	Subtitle D			accessible to public.
☐ Electronic E ☐ Other Manu			☐ Municipal ☐ Industrial			Distance to Nearest Dwelling, School, or Workplace:
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	nacturing.		"Converter"			School, of Workplace.
□Metals			"Protective F			250 Feet
☐Coal ☐Oil and Gas		•	☐ "Non- or Late	e Filer'	•	
□ On and Gas □ Non-metallie			Other		,	
6. Waste Cha	racteristics l	Informa	tion			
Source Type:		Source	Waste Quantity: Ti	er*:	General Types of Waste	(Check all that apply)
(Check all that apply)		(Include	e units)			
			•		Metals	Pesticides/Herbicides
■ Landfill					Organics	Acids/Bases
Surface Impoundm	ent .				☐ Inorganics ☐ Solvents	☐ Oily Waste ☐ Municipal Waste
Drums		4			☐ Paints/Pigments	☐ Mining Waste
☐ Tanks and Non-Dru ☐ Chemical Waste Pi				<u>.                                    </u>	☐ Laboratory/Hospital	Waste Explosives
Scrap Metal or Juni			<del></del>	]	Radioactive Waste	
Tailings Pile				_	Construction/Demo	lition
☐ Trash Pile (open du☐ Land Treatment	imp)	·		ŀ	wasie	
Contaminated Grou				_	Physical State of Waste	as Deposited (Check all that apply):
(unidentified source Contaminated Surfa		, —	<u> </u>		_	
(unidentified source		·			Solid	☐ Sludge ☐ Powder
Contaminated Soil		<del></del>		_	Liquid	Gas
Other metal manufa	acturing waste	_			•	
☐ No Sources						
* A – Hazardous cons			waste stream quantit	ty,		
	C – Volume, I	) - Area		]		



## **EPA** Potential Hazardous Waste Site

Preliminary Assessment Form - Page 3 of 4

CERCLIS Number:

COD983785494

7. Groundwater Path	iway				
Is Groundwater Used for Drinking Water Within 4 Miles?	Is There a Suspected Release to Groundwater?		List Secondary Targ Withdrawn From:	get Population Serv	red by Groundwater
■ Yes	□Yes		0 – 1/4 Mile	0	
□No	■ No		> ¼ - 1/2 Mile	347	
Type of Drinking Water Wells Within 4 Miles (Check all that	Have Primary Target Drinking Wa Wells Been Identified?	iter	> ½ - 1 Mile	2,090	····
apply):	■ Yes		> 1 - 2 Miles	17,290	
☐ Municipal	□No		> 2 - 3 Miles	31,394	
■ Private □ None	If yes, Enter Primary Target Popul People		> 3 - 4 Miles	41,214	
	·		Total Within 4	Miles <u>92,335</u>	
Depth to Shallowest Aquifer:  10-24 feet	Nearest Designated Wellhead Prot Area:	ection			
Karst Terrain/Aquifer Present:	☐ Underlies Site ☐> 0 - 4 Miles			•	
☐ Yes	■ None Within 4 Miles				
■ No					
8. Surface Water Par	thway				
Type of Surface Water Draining Site (Check all that apply):	and 15 Miles Downstream	Shorte	st Overland Distance	From Any Source	To Surface Water:
Stream River	□Pond □Lake		20	Feet	
☐Bay ☐Ocean	Other			Miles	
Is There a Suspected Release to Surf	ace Water?		Located in:		· · · · · · · · · · · · · · · · · · ·
□Yes			Annual - 10-year Flo > 10-year - 100-year		
■ No			> 100-year - 500-yea	r Floodplain	
Dilin Was Lada Lasad Als	d. C. C. W. W.		> 500-year Floodplai		1
Drinking Water Intakes Located Alor Path:	ng the Surface water Migration	Name	Il Secondary Target I Water Body	_	
□Yes					
■ No			·		
Have Primary Target Drinking Wate	r Intakes Been Identified:				
□Yes					
■ No		·		Total within	15 miles
If Yes, Enter Population Served by P	rimary Target Intakes:				
Fisheries Located Along the Surface	Water Migration Path:		II Secondary Target F ter Body/Fishery Nar		Flow (cfs)
□Yes □No			iei Body/Fishery Nai		riow (CIS)
Have Primary Target Fisheries Been	Identified:				
□Yes □No			······································		
· ·	,	I			



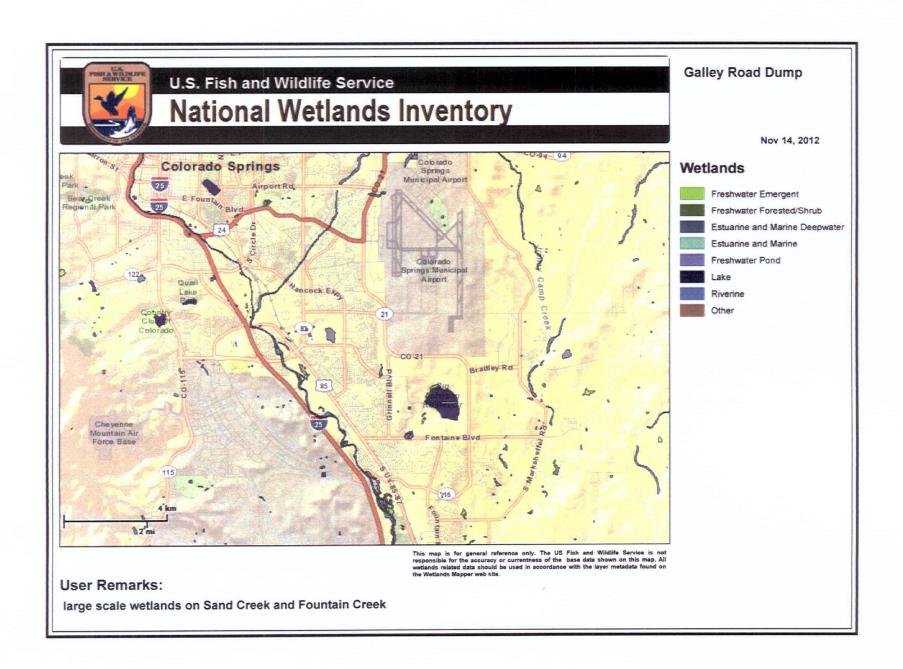
# EPA Potential Hazardous Waste Site

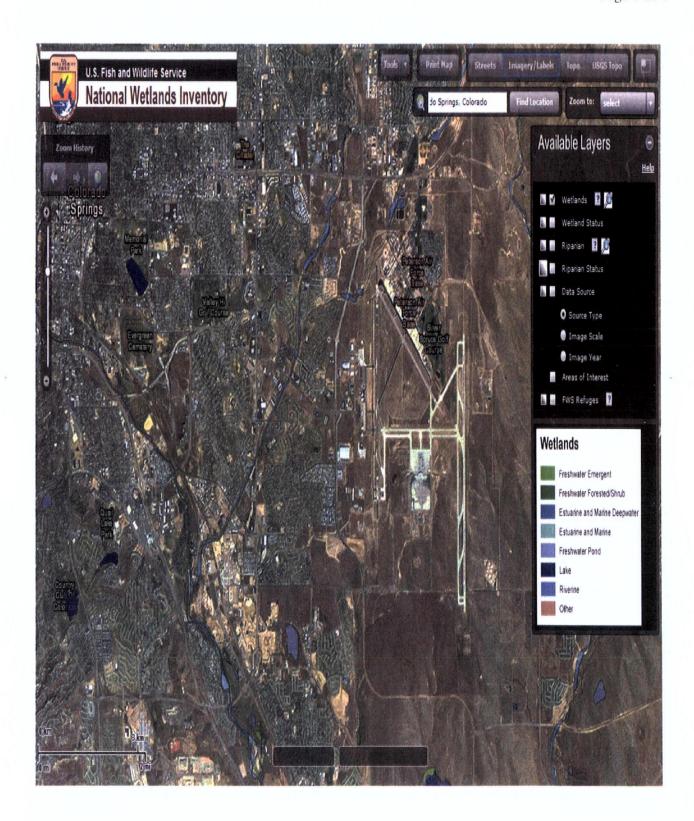
**CERCLIS** Number:

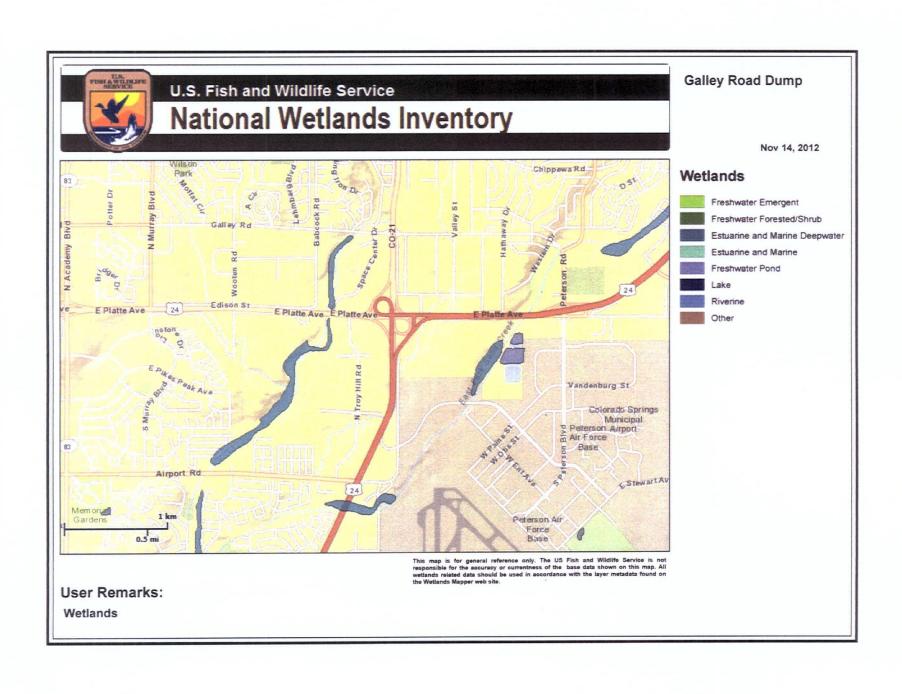
COD983785494

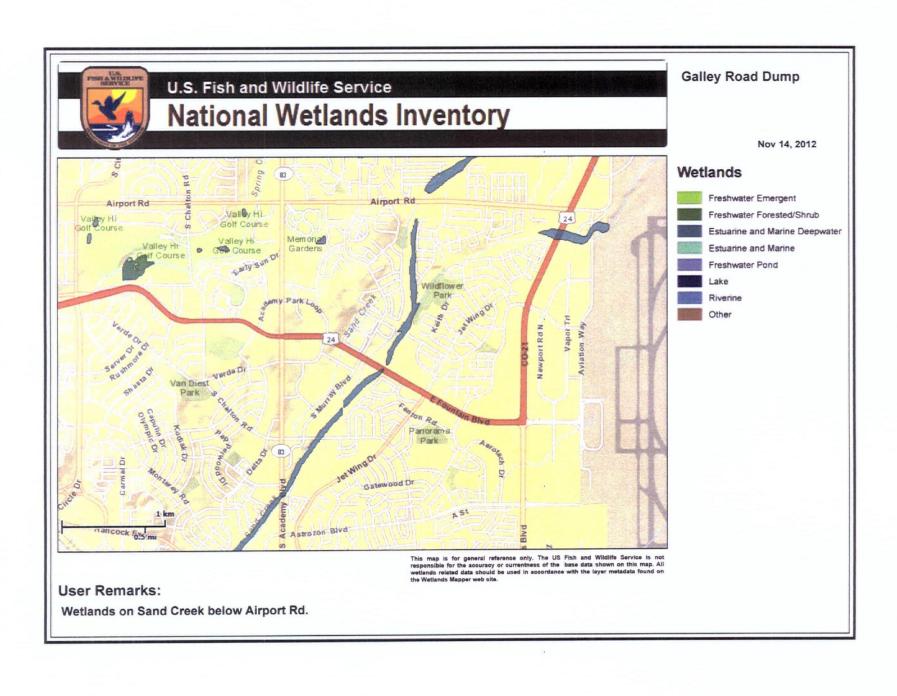
	Prelimin	ary Assessi	ment Forn	ı - Page 4 o	of 4		
8. Surface Wa	ter Pathwa	y (continue	ed)				
•	ands Been Identif lands: low (cfs) Fr nknown		☐ Yes ■ No  Have Primary T ☐ Yes ■ No	Target Sensitive I	Environments E		
9. Soil Exposu	re Pathway				,		
Are People Occupying Resid Attending School or Daycare of Areas of Known or Suspect Yes No  If Yes, Enter Total Resident unk People	on or Within 200 cted Contaminatio	O Feet Non:	- 100 01 - 1,000	Within 20 Contamin ☐ Yes	0 Feet of Areas ation?	Environments Been Id of Known or Suspected al Sensitive Environme	1
10. Air Pathway	,					·	
Is There a Suspected Relea  ☐ Yes  ■ No  Enter Total Population On		✓ ■ Yes	ed Within 4 Mile	es of the Site:	Miles of the Si	· ·	
On Site  0 – 1/4 Mile  1/4 - 1/2 Mile  1/2 - 1 Mile	0 20 100 2,000 3,500	■ Yes	e Environments	Within 2 Mile o	f the Site:		
>2 - 3 Miles >3 - 4 Miles	7,000 19,000 31,620	On Site	0.5 e 1.0				
·		> 2 - 2 N	∕lile <u>0.5</u>				

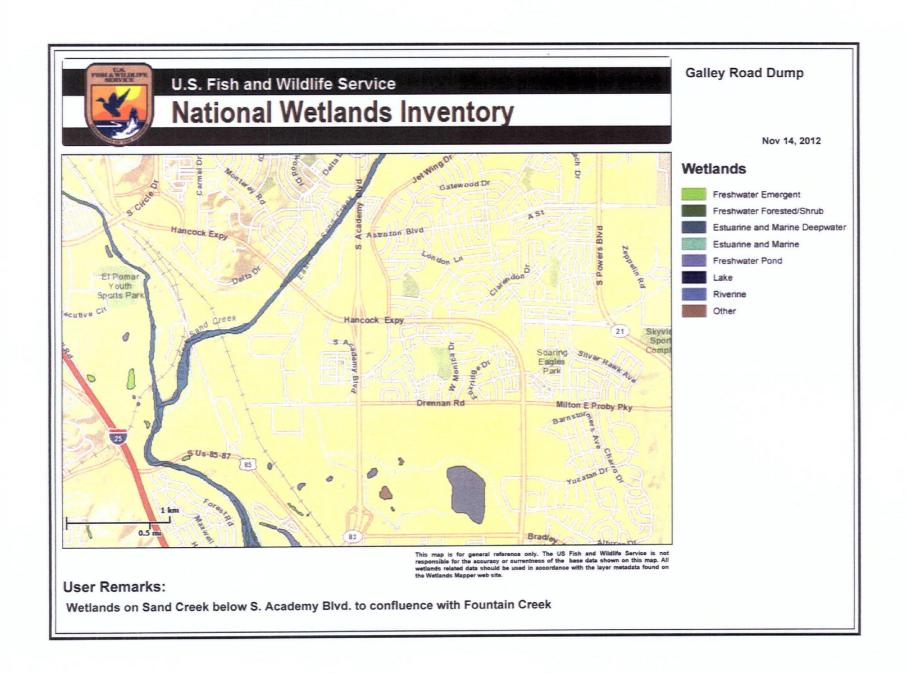
Appendix E
National Wetlands Inventory Maps of the 15-Mile
Downstream Segment

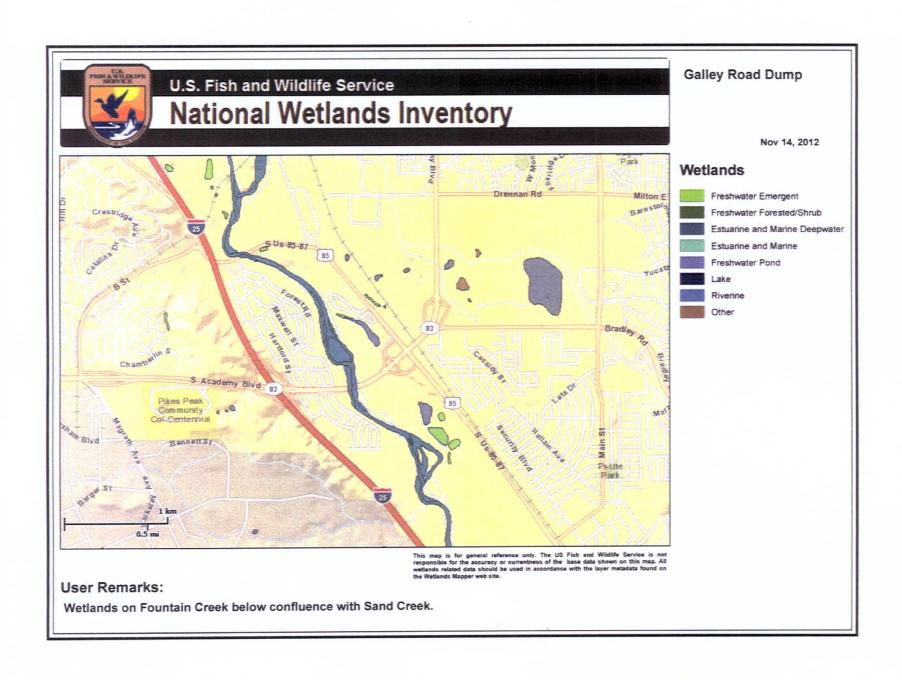












Appendix F
Colorado Division of Water Resources
Galley Road Dump Site Area Wells

# AQUAMAP Colorado Division of Water Resources Galley Road Dump Wells Map created by bhk 11720/2012



21,353 ft

AquaMap Version 3.0.1 July 5, 2009

#### MAP NAVIGATION





Click to create PDF UTM X, Zone 13: 519259 UTM Y, Zone 13:4101521 Long: -104° 47' 0.2" 37° 3' 35.0"

UTM and Geographic(LL) coordinates in NAD 83

	ATA DISPLA	Y
■ Background	☐ Counties	
2011 Aerials	□ PLSS	☐ DWR Parcels
● Low ○ High	Roads	EPA Well Notificati
E LOW O High	☐ Hydrography	Oil/Gas Well Locat
Transparency	☐ County Parce	els (No Public Access)
	Towns	More Data
	LOCATION	
	wnship	Range Meridian
12 🔻 14	▼ S ▼ 66 '	₩ ₩ Sixth ₩

#### **PRINTING**

Quick Zoom

**Output Scale** Page Size 8.5x11 ₩ 36,000

**PLSS Locator** 

User bhk

Spacing

Title Galley Road Dump Wells

Note: The well locations displayed on AquaMap are based on location information provided by well permit application forms and are only as accurate as the information provided. The actual physical locations of all wells have not been field verified and may vary from the location displayed. Refer to a copy of the original well permit file, available on the Division of Water Resources website, for well location details.







Based on work developed at http://www.carto.net

Address location by Yahoo Maps

PERMIT	SUF	REPLACEMENT	RECEIPT	DIVISION	COUNTY	OWNER	ADDRESS1	ADDRESS2	CITY	STATE	ZIP S
16386	F		9076303	2	21	VINTAGE DEVELOPMENT C/O SHEILA VENEZIA	116 N NEVADA AVE		COLORADO SPRINGS	со	80903-
923			<u>9078371</u>	2	21	HARDING BILLIE R	721 POWERS BLVD	,	COLO SPRINGS	со	80915
1128	]		9078396	2	21	ALBIN FRED	RT 2	:	COLO SPRGS	CO	80901
2091		•	9078454	2	21	TOWNER CHAS JR	225 IOWA ST		COLO SPRGS	co	80901
4128	]		9078607	2	21	WILCOX TED	1031 E MORENO		COLO SPRGS	CO	80901
4341	F		<u>9078626</u>	2	21	SINGLETON ALLEN J	6201 E HWY 24		COLO SPRGS	со	80901
4448			9078648	2	21	BUCKINGHAM HAROLD	2642 E UINTAH		COLO SPRGS	со	80901
4511			9078657	2	21	CALVERT CECIL J	RT 2		COLO SPRGS	со	80901
5398	j	·	9078742	2	21	RAINS WM C	2705 E BOULDER		COLO SPRGS	CO	80901
5741			9078762	2	21	HENREY PERION R	EAST HWY 24	*	COLO SPRGS	со	80901
5841			9078777	2	21	SHAVER WALTER	RT 2 BX 10		COLO SPRGS	со	80901
6002			9078794	2	21	WILSON BETTY	R 2 WRANGLER MTL		COLO SPRGS	со	80901
6394			9078838	2	21	ORCUTT WAYNE	909 E MONUMENT		COLO SPRGS	со	80901
6870			9078889	2	21	PEPPER ROBERT D	5264 E PIKES PEAK		COLO SPRGS	со	80901
7793	F		9078936	2	21	WAYNE DON SR and REBECCA	6302 E PLATTE AVE		COLORADO SPRINGS	со	80915-
8058			9078959	2	21	TOP HARRY	· RR 1		COLO SPRGS	CO	80901
8923			9079027	2	21	STEINBACK P J MRS	117 N CORONA		COLO SPRGS	со	80901
9664			9079073	2	21	ZEIDERS JAMES	RR 2		COLO SPRGS	со	80901
11015	F		9079171	2	21	SAGER MARCIE M	525 CHEYENNE BLVD		COLO SPRGS	со	80901
11511			9079224	2	21	LUBKE PAUL			DENVER	CO	80202
11589			9079232	2	21	WAGNER GLENN S	511 W SAN MIGUEL	•	COLO SPRGS	co	80901
13879			9079416	2	21	CORFMAN CARL D	RT 2		COLO SPRGS	со	80901
14111			9079448	2	21	BABCOCK BOYDA B	RT 1 BOX 107		COLO SPRGS	со	80901
14456			<u>9079476</u>	2	21	WESTERN and HAYES EDWIN W ELECT	707 HATHAWAY DR		COLO SPRGS	со	80901
15136	R	:	9079551	2	21	BABCOCK HELEN A D	R R 1 BX 107		COLO SPRGS	со	80901
15137	R		9079552	2	21	BABCOCK HELEN A D	R R 1 BX 107		COLO SPRGS	со	80901
15138	R		9079553	2	21	BABCOCK HELEN A D	R R 1 BX 107		COLO SPRGS	со	80901
15203		1	9079559	2	21	KUNAU JAKE			RUSH	CO	80833
15790			9079638	2	21	BRITT JIM	RT 2		COLO SPRGS	CO	80901
16322		,	<u>9079824</u>	2	21	SAUNDERS MARTHA	1418 N WALNUT ST		COLO SPRGS	со	80901
16439			9079847	2	21	HENRY PERRIAN R	5200 E HIGHWAY 24		COLO SPRGS	co	80901
16441		<u>[</u>	9079849	2	21	CIMARRON DEVELOP	EXCH NATL BK		COLO SPRGS	со	80901
16691			<u>9079904</u>	2	21	GAYLOR JACK			CALHAN	со	80808
16873			9079933	2	. 21	WAYNE DON SR and REBECCA	6302 E PLATTE AVE		COLORADO SPRINGS	со	80915-
17363			9079985	2	21	PARSONS RICHARD E and VICKI L	1305 BRANDING IRON DR		COLO SPRGS	со	80915- 2411
17469		ļ	9079994	2	21	SAMS PAUL O	2502 E BIJOU		COLO SPRGS	CO	80901
17471			<u>9079995</u>	2	-21	EDWARDS	1726 PALMER		COLO SPRGS	co	80901

	إ		L	<u> </u>		KENNETH J	PARK
19792	]		9080412	2	21	LONG KENNETH	2227 AFTON WAY
20209			9080477	2	21	DIETEMANN JOHN W	RT 1 BOX 105
20849			9080592	2	21	MCKIBBEN ELLIS W	516 E UINTAH
21304	]		9080632	2	21	PROCTOR L B	E HWY 24
21432	] .		9080660	2	21	BANKS CHARLES	314 W WILLEMETTE
21785	]		9080695	2	21	HERBERT HAP	RT 2
21997	Ţ		9080720	2	21	WILLIAMS T A	R R 2 BOX 18
22899	]	•	<u>9080815</u>	2	21	HARDRICK C E and PEARL L H	1209 S NEVADA
24215	_		9081002	2	21	BABCOCK HELEN A D	RT 1 BOX 107
25124	_		<u>9081057</u>	2	21	PADDOCK JOHN C	4 N LOGAN
25586			9081104	2	21	CRANSON DONALD H	RT 1 BOX 105
26626	į		9081190	2	21	HILTONPG	RT 2 BOX 9
29562			9081423	2	21	PADDOCK JOHN C	4 N LOGAN
30551	ٳ		9081517	2	21	ERKER HENRY	5501 E PKS PK AVE
31210			9081572	2	21	BABROCK HELEN	RT 1 BOX 107
33214	ļ		9081683	2	21	SPORTSMAN INTERPRISE	525 CHEYENNE BLVD
35825			9081830	2	21	CALLAHAN LOREEN D	127 N POWERS
41256		•	9082196	2	21	PEZOLDT RAYMOND	
56131			9082946	2	21	NABER HAROLD	6765 GALLEY RD
86047			9084134	2	21	CORFMAN CARL D and PEARL	RT 2
93629			9084428	2	21	BAILEY EARL R	12445 HWY 94
145855	]_ ·		<u>9085426</u>	2	21	WILCOXON BERNIE	5915 E. BIJOU
133	WCB		C210133	2	21	SHAVER WALTER W	
272	WCB		C210272	2	21	GARINGER C	•
692	WCB		C210692	2	21	MEMORIAL SHRINE	•
693	WCB		C210693	2	21	MEMORIAL SHRINE	
694	WСВ		C210694	2	21	MEMORIAL SHRINE	
128227	]		0229667	2	21	PEZOLDT J	
5398		A	0238647	2	21	JOHN K and PATRICIA J WITHERS TRUST	220 COUNTRY CLUB DR
142099	]		0258558C	2	21	WILLIAMS L	
142495	]		0260760	2	21	DALE BEGGS DEV	l
145676		•	0266501	2	21	BESHARA GEORGE	1714 TESLA DRIVE
1989003	AB		0000034	2	21	OTERO SAVINGS and LOAN ASSOC	
1997020	AB		0000492A	2	21	DRAKE WALTER	4510 EDISON
1997026	AB		0000498A	2	21	DRAKE WALTER	4510 EDISON AVE
2000010	AB		0000755A	2	21	WESTERN EXCAVATING INC	2720 WHEELER
11245	тн		0011245	2	21	SCHRANZ RANDY	C/O 4675 SPLENDID CIR

	L	<u> </u>
COLO SPRGS	со	80901
COLO SPRGS	со	80901
COLO SPRGS	со	80901
COLO SPRGS	CO	80901
COLO SPRGS	со	80901
COLO SPS	со	80909
COLO SPRGS	со	80901
COLO SPRGS	CO	80901
COLO SPRGS	СО	80901
COLO SPRGS	CO	80901
COLO SPRGS	со	80901
COLO SPRGS	со	80901
COLO SPGS	со	80901
COLO SPRINGS	co	80901
COLO SPGS	co	80915
COLO SPRGS	со	80906
COLORADO SPRINGS	со	80909
COLO. SPGS.	co	80916

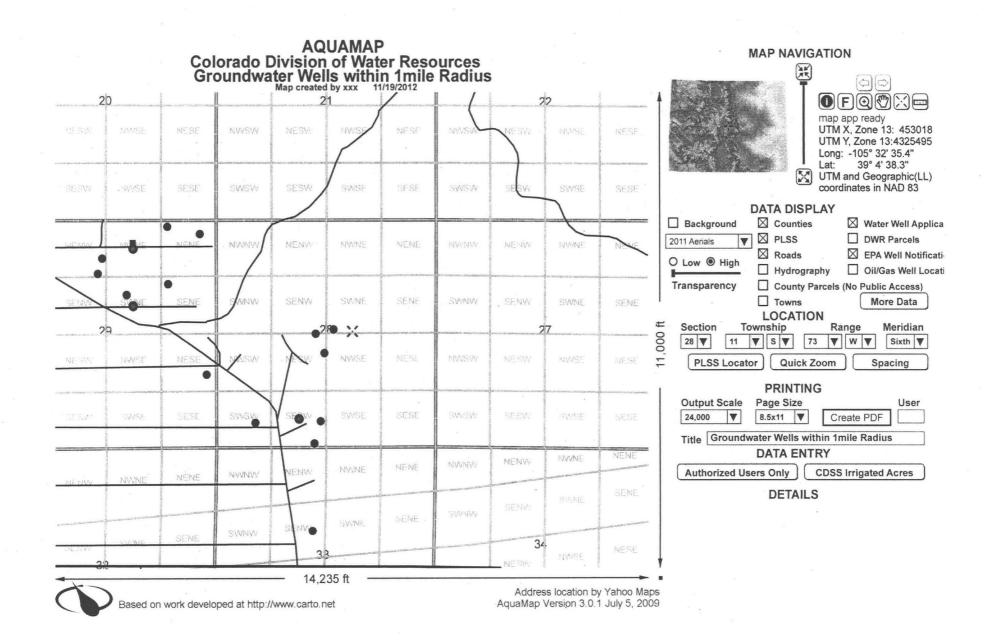
COLO SPRGS	CO	80915
SANTA ROSA	CA	95401
COLO SPRGS	CO	80915
COLO SPRGS	co	80918
COLO. SPRINGS	со	80909

CO SPRINGS	co	80915-
COLORADO SPRINGS	со	80915-
COLORADO SPRINGS	СО	80904-
CO SPGS	со	80917

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15130	мн		0015130	2	21	NTI DOUBLE SIDED DIVISION	C/O 3405 N EL PASO		CO SPGS	СО	80907
89308	VE		0015170	2	21	MYERS EVERET	6005 E BIJOU	,	CO SPGS	со	80916
16033	МН	<b>j</b>	0016033	2	21	EXXON USA	C/O 96 S ZUNI ST	j	DENVER	co	80223
16044	МН		0016044	2	21	AMPEX CORP	C/O 1391 N SPEER BLVD		DENVER	со	80204
145855		A	0268742B	2	21	WILCOXON BERNIE		•	CO. SPRINGS	со	80916
17105	MH	]	0017105	2	21	EXXON	C/O 96 S ZUNI		DENVER	CO	80223
17106	MH	Ī	0017106	2	21	EXXON	C/O 96 S ZUNI		DENVER	СО	80223
18252	мн		0018252	2	21	WIDEFIELD SCHOOL DIST 3	C/O PO BOX 16859		CO SPGS	со	80935
19423	МН		0019423	2	21	MILLER LARRY % EMPIRE LABS INC	PO BOX 16859		CO SPRINGS	со	80935
24987	МН		0024987	2	21	COLORADO SPRINGS UTILITIES	C/O GES/GLOBAL ENVIRONMENTAL	1040-A ELKTON DR	COLO SPRINGS	со	80907
24988	МН	,	0024988	2	21	COLORADO SPRINGS UTILITIES	C/O GES/GLOBAL ENVIRONMENTAL	1040-A ELKTON DR	COLO SPRINGS	со	80907
25410	МН		0025410	2	21	NTI DIV OF COLO SPRINGS CIRCUIT INC	ENVIRONMENTAL	3801 AUTOMATION WY #200	FORT COLLINS	со	80525
. 25736	МН		0025736	2	21	HOMBERG HOLDINGS COMPANY INC	C/O GROUND EXPLORATION CO	18610 W HWY 72	GOLDEN	со	80403
147128			0272764A	2	21	TRAFICANTI JOE	P O BOX 254		GREEN MOUNTAIN FALLS	со	80819-
147128		A	0272764B	2	21	TRAFICANTI JOE	P O BOX 254		GREEN MOUNTAIN FALLS	со	80819
32605	МН		0032605	2	21	SILCO DIST/CASE CO	C/O GLOBAL ENVIRO SERVICES	1040-A ELKTON DR	COLO SPRINGS	со	80907
16385	F		0033413	2	21	CIMARRON CORP	707 HATHAWAY DR.		COLO SPRINGS	co	80909
34750	МН		0034750	2	21	COLORADO SPRINGS CITY OF	C/O RESOURCE GEOSCIENCE	3740 WABASH	COLORADO SPRINGS	со	80906
35581	МН		0035581	2	21	COLORADO SPRINGS CITY OF	C/O RESOURCE GOESCIENCE	19 E WILLAMETTE AVE	COLO SPRNG	со	80903
36539	МН		0036539	2	21	CO SPRINGS SCHOOL DIST	C/O CAN- AMERICA DRILLING INC	BOX 416	SIMLA	со	80835-
39008	МН		0039008	2	21	MURRAY SQUARE INVESTMENTS INC	C/O EMG	11011 MCCORMICK RD	HUNT VALLEY	MD	21031-
46454	МН		0046454	2	21	PARSONS BEHLE and LATIMER	C/O ERM ROCKY MOUNTAIN	5950 S WILLOW DR STE 200	GREENWOOD VILLAGE	со	80111-
46879	МН		0046879	2	21	CHEROKEE METRO DISTRICT	C/O HYDROKINETICS	12975 W 24 PL	GOLDEN	со	80401-
47597	мн		0047597	2	21	CO DEPARTMENT OF AGRICULTURE	GROUNDWATER PROGRAM	700 KIPLING ST STE 4000	LAKEWOOD	со	80215-
47604	мн		0047604	2	21	CO DEPARTMENT OF AGRICULTURE	GROUNDWATER PROGRAM	700 KIPLING ST STE 4000	LAKEWOOD	со	80215-
2008067	АВ		0047857T	2	21	JUSTMAN DON	3850 68TH LANE		FOWLER	со	81039-
279483			0048176G	2	21	COLORADO DEPT OF AGICULTURE	DIV CONSERVATION SERVICES	700 KIPLING ST STE 4000	LAKEWOOD	со	80215-

í	11		4							11	
5070	AD		0057319	2	21	RAINS JR. WILLIAM C.			CO. SPRINGS	co	80916
923	]	A	0068028	2	21	HARDING BILLIE R	721 POWERS BLVD		COLO SPRINGS	со	80915
110281	j		0104147	2	21	HUMPHREY D	]		COLO SPRGS	CO	80909
151201	]		0287282A	2	21	BINDER JERRY	]		CO. SPRINGS	СО	80909
151201	]	A	0287282B	2	21	BINDER JERRY			CO. SPRINGS	CO	80909
152854			0293374A	2	21	SAWYER RANDY	17245 BENJAMIN		SPRING LAKE	МІ	49456
152854		A	0293374B	2	21	SAWYER RANDY	17245 BENJAMIN		SPRING LAKE	MI	49456
154929			0302961A	2	21	MYERS EVERETT	6005 E BIJOU		CO SPGS	co	80916
154929		A	0302961B	2	21	MYERS EVERETT	6005 E BIJOU		CO SPGS	СО	80916
39361	M		0326427A	2	21	AMPEX CORP	600 WOOTEN RD		COLO SPGS	CO	80915
39362	M		0326427B	2	21	AMPEX CORP	600 WOOTEN RD		COLO SPGS	CO	80915
39363	M		0326427C	2	21	AMPEX CORP	600 WOOTEN RD		COLO SPGS	CO	80915
39364	M		0326427D	2	21	AMPEX CORP	600 WOOTEN RD		COLO SPGS	CO	80915
39365	M		0326427E	2	21	AMPEX CORP	600 WOOTEN RD		COLO SPGS	CO	80915
39366	M		0326427F	2	21	AMPEX CORP	600 WOOTEN RD		COLO SPGS	CO	80915
169408			<u>0351104A</u>	2	21	ROSE JR FRANK W	6225 E PLATTE AVE		COLO SPRGS	co	80915
169409			0351104B	2	21	ROSE JR FRANK W	6225 E PLATTE AVE		COLO SPRGS	со	80915
42768	F		0357928	2	21	CO SPRINGS WATER DEPT	30 SO NEVADA AVE STE 603	•	COLO SPRGS	со	80903
42769	F	,	0357929	2	21	CO SPRINGS WATER DEPT	30 SO NEVADA AVE STE 603		COLO SPRGS	со	80903
42825	F		0359816	2	21	COLORADO SPRINGS CITY OF	30 SO NEVADA AVE	STE 603	CO SPGS	со	80903
14003	AD		<u>0405919A</u>	2	21	WAYNE DON SR and REBECCA	6302 E PLATTE AVE		COLO SPRINGS	co	80915
14004	AD		0405919B	2	21	WAYNE DON SR and REBECCA	6302 E PLATTE AVE		COLO SPRINGS	co	80915
266	G	·	0456930	2	21	SCHOOL DISTRICT 11	1115 N EL PASO ST		COLORADO SPRINGS	со	80903
59944	F		0508249A	2	21	COLORADO SPRING UTILITIES	MSC 1328	P O BOX 1103	COLORADO SPRINGS	со	80947
59945	F		0508249B	2	21	COLORADO SPRINGS UTILITIES	MSC 1328	P O BOX 1103	COLORADO SPRINGS	со	80947
251713		A	<u>0512676A</u>	2	21	SCHRANZ RANDALL	C/O BARNHART PUMP CO	5015 E BLANEY RD	FALCON	со	80831
251713		•	<u>0512676B</u>	2	21	SCHRANZ RANDALL	C/O BARNHART PUMP CO	5015 E BLANEY RD	FALCON	СО	80831
5364			0900647	i	21	ORCUTT WAYNE R	908 E MOUNMENT	•	COLORADO SPRINGS	со	
5365			0900648	1	21	ORCUTT WAYNE R	908 E MOUNMENT		COLORADO SPRINGS	co	
13897			0901007	2	21	ANDERSON CLARENCE R	618 ARRAWANNA		COLORADO SPRINGS	co	].
13897		A	<u>0901105</u>	2	21	HURT JOHN E	1065 N POWERS BLVD	•	COLORADO SPRINGS	со	
20981			0901679	2	21	PROCTOR L B			COLORADO SPRINGS	СО	
40764			0903338	2	21	KYLE DON	RT 2	-	COLORADO SPRINGS	СО	]
46365			0903932	2	21	KYLE DONALD W	RT 2		COLORADO SPRINGS	СО	
73012			0910074	2	21	PEZOLDT JERRY	1260 HALF CIRCLE LANE		COLORADO SPRINGS	со	80909
83609			0912071	2	21	ELLIOT RONALD V.	6075 E. BIJOU		COLORADO SPRINGS	со	80909
17	GX		3600069D	2	21	COLORADO SPRINGS SCHOOL DISTRICT #11	5240 GEIGER BOULEVARD	٠.	COLORADO SPRINGS	со	80915
17	GX		3600069R	2	21	COLORADO SPRINGS	5240 GEIGER		COLORADO	со	80915

SCHOOL BOULEVARD SPRINGS
DISTRICT #11



Appendix G Hazardous Waste Shipping Manifests

	WASTE SHIPMEN	IT R	ECORD	MANIFE	st# 10	861	
	GENERATOR			COL	TRACTO	R	
	PROJECT LOCATION: Galley Rd. Dump Site ADDRESS: Galley Rd. Space Center Rd. CITY/STATE/ZIP: Space Center Rd. AUTHORIZED AGENT: Colorado Spengs, Colorado 8090	1	NAME: /- BILLING AD CITY/STATE PHONE:	DRESS: 4	5 1990 NO	DE STREET	weit h
G E					BILLING		
N	GENERATOR NAME: Futh fowell		BILL TO:	AC.	END S		
E R	GENERATOR NAME: Steith fowell MAILING ADDRESS: 4990 KOME ST. UNIT A CITY/STATE/ZIP: DENVEL CO. 80239		ACCOUNT #	, 9	718	•	
A T	PHONE #:		P.O. # (Dispo P.O. #( Haul	osal) 🔼	2026	90266	
R	DOT SHIPPING INF	OPM	ATION	<del> </del>			
		URM	PROFILE	CONTA	INFRS	QUANTI	<del></del>
	DESCRIPTION OF MATERIALS	ONE	NUMBER	NUMBER	TYPE	(CUBIC YA	RDS)
	Asbestos, 9, NA2212, III, RQ						
			/		100		
	Nonfriable Asbestos	1	146259	648	Aly Bugs	30c	a yos
31	I hereby declare that the contents of this consignment are fully and are classified, packed, marked, and labelled, and are, in all aspect to applicable federal and state regulations.  TONY HECUANDED SUPPLIED (Print Name and Titte)	accur ts, in p	ately describ proper condit	ed above lion for tran	by proper stasport by hi	nipping name ghway, accor	and ding
	TRANSPORTER #1 - ACKNOWLEDGEMI	- 1		<del></del>		Date	•
		ENT (	OF RECEIP	TOF MA	TERIALS	Date	
<u>.</u>	NAME: Waste Management of Colorado	ENT (	OF RECEIP	TOF MA	TERIALS TRUC	CK#	
П		Colora	ido 80	216	TRUC 303-427-6	200	
R			ido 80		TRUC	200	
Αl	ADDRESS: 380 W. 62nd Avenue Denver	Colora	ido 80	216	TRUC 303-427-6	200	
A N	ADDRESS: 380 W. 62nd Avenue Denver	Colora	ido 80	216 IP	TRUC 303-427-6	200	DATES
ANSP	ADDRESS: 380 W. 62nd Avenue Denver STREET CITY  CENE MANE -	Colora STATI	ido 80 E Z ER SIGNATU	0216 CIP CIP CIP	TRUC 303-427-6 PHONE	200	DATE
Αl	ADDRESS: 380 W. 62nd Avenue Denver STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 – ACKNOWLEDGEMI  NAME:	Colora STATI	ido 80 E Z ER SIGNATU	0216 CIP CIP CIP	TRUC 303-427-6 PHONE	1200 14 9 5	DATES
ANSP	ADDRESS: 380 W. 62nd Avenue Denver STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 – ACKNOWLEDGEMI  NAME: ADDRESS:	Colora STATI ORIV	ido 80 E Z ER SIGNATU OF RECEIP	PE OF MA	TRUC 303-427-6 PHONE PHONE TERIALS	5200 1	DATE
ANSP	ADDRESS: 380 W. 62nd Avenue Denver STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 – ACKNOWLEDGEMI  NAME:	Colora STATI	ido 80 E Z ER SIGNATU OF RECEIP	0216 CIP CIP CIP	TRUC 303-427-6 PHONE	5200 1	DATE
ANSP	ADDRESS: 380 W. 62nd Avenue Denver STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 – ACKNOWLEDGEMI  NAME: ADDRESS:	STATI	ido 80 E Z ER SIGNATU OF RECEIP	PIE PIE MA	TRUC 303-427-6 PHONE PHONE TERIALS	5200 Fe 9 5 SK#	DATE
ANSP	ADDRESS: 380 W. 62nd Avenue Denver  STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 - ACKNOWLEDGEMI  NAME: ADDRESS: STREET CITY  DRIVER NAME (PRINTED)  DESTINAT	Colora STATI	do 80 E Z VER SIGNATU OF RECEIP	PERE CIP	TRUC 303-427-6 PHONE PHONE TRUC	5200 F 9 5 SK#	DATE
ANSP	ADDRESS: 380 W. 62nd Avenue Denver STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 — ACKNOWLEDGEMI  NAME: ADDRESS: STREET CITY  DRIVER NAME (PRINTED)  DESTINAT  NAME: Denver Arapahoe Disposal Site	STATI STATI STATI DRIV	do 80 E 2 VER SIGNATU OF RECEIF	PHONE #_	TRUC 303-427-6 PHONE PHONE TRUC PHONE	5200 F 9 5 SK #	
ANSP	ADDRESS: 380 W. 62nd Avenue Denver  STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 - ACKNOWLEDGEMI  NAME: ADDRESS: STREET CITY  DRIVER NAME (PRINTED)  DESTINAT	Colora STATI	do 80 E 2 VER SIGNATU  OF RECEIP  E 2 VER SIGNATU	PHONE #_	TRUC 303-427-6 PHONE TERIALS TRUC PHONE 303-690-43 prado	5200 F 9 5 SK#	13
ANSP	ADDRESS: 380 W. 62nd Avenue Denver STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 — ACKNOWLEDGEMI  NAME: ADDRESS: STREET CITY  DRIVER NAME (PRINTED)  DESTINAT  NAME: Denver Arapahoe Disposal Site	STATI STATI STATI DRIV	do 80 E 2 VER SIGNATU  OF RECEIP  E 2 VER SIGNATU	PHONE #_Colo	TRUC 303-427-6 PHONE TERIALS TRUC PHONE 303-690-43 prado	5200 1	13
ANSP	ADDRESS: 380 W. 62nd Avenue Denver STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 — ACKNOWLEDGEMI  NAME: ADDRESS: STREET CITY  DRIVER NAME (PRINTED)  DESTINAT  NAME: Denver Arapahoe Disposal Site  ADDRESS: 3500 South Gun Club Rd.  DISCREPANCIES: STREET	STATE STATE STATE STATE DRIV	VER SIGNATU  VER SIGNATU  VER SIGNATU  A	PHONE #_Colors	TRUC 303-427-6 PHONE TRUC PHONE 303-690-43 Drado ATE	5200 1	13
ANSP	ADDRESS: 380 W. 62nd Avenue Denver STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 — ACKNOWLEDGEM  NAME: ADDRESS: STREET CITY  DRIVER NAME (PRINTED)  DESTINAT  NAME: Denver Arapahoe Disposal Site ADDRESS: 3500 South Gun Club Rd.	STATE STATE STATE STATE DRIV	VER SIGNATU  VER SIGNATU  VER SIGNATU  A	PHONE #_Colo	TRUC 303-427-6 PHONE TRUC PHONE 303-690-43 Drado ATE	5200 1	13
ANSP	ADDRESS: 380 W. 62nd Avenue Denver STREET CITY  DRIVER NAME (PRINTED)  TRANSPORTER #2 — ACKNOWLEDGEMI  NAME: ADDRESS: STREET CITY  DRIVER NAME (PRINTED)  DESTINAT  NAME: Denver Arapahoe Disposal Site  ADDRESS: 3500 South Gun Club Rd.  DISCREPANCIES: STREET	STATE STATE STATE STATE DRIV ION Auror CITY als.	VER SIGNATU  VER SIGNATU  VER SIGNATU  A	PHONE #_Column ST/	TRUC 303-427-6 PHONE TRUC PHONE 303-690-43 Drado ATE	5200 1	13

	WASTE SHIPMENT RECORD MANIFEST # 06107										
	GENERATOR	CONTRACTOR									
	PROJECT LOCATION: GALLEY RD. Dum P SITE ADDRESS: CITY/STATE/ZIP: COLORADO SPRINGS COLORADO  AUTHORIZED AGENT:	NAME: AC and S BILLING ADDRESS: 4990 Nome St, Unit A CITY/STATE/ZIP: Denver, Co 80239 PHONE: 373-9767									
G	•	BILLING BILL TO: AC and S									
UNER	GENERATOR NAME: KEIHH YOWELL MAILING ADDRESS: 4990 NOME ST. UNITA CITY/STATE/ZIP: DENVER CO. 80239										
A T O	PHONE #:	ACCOUNT # 1019718  P.O. # (Disposal) 266  P.O. #(Hauling) 267									
R	DOT SHIPPING INFORMATION										
	DESCRIPTION OF MATERIALS	ONE	PROFILE	CONTA NUMBER	INERS TYPE	QUANTITY (CUBIC YARDS)					
	Asbestos, 9, NA2212, III, RQ		146298								
			/			·					
	Nonfriable Asbestos	1	146259	302	Poly BAS	15cy VIX					
2	I hereby declare that the contents of this consignment are fully and are classified, packed, marked, and labelled, and are, in all aspect to applicable federal and state regulations.    TONY   HERNANDEZ   Supervisor   O	ENT Colora	Signature DF RECEIP	OT OF MA	sport by hi	ghway, according  09-28-95  Date					
R	STREET CITY	S7AT	E 2	ZIP	PHONE	9:19-95					
إ	DRIVER NAME (PRINTED) DATE										
5[	TRANSPORTER #2 - ACKNOWLEDGEM	ENT (	OF RECEIP	T OF MA							
3[	NAME:				TRUC	K#					
	ADDRESS: STREET CITY	STAT	E Z	ZIP	PHONE	Ē					
	DRIVER NAME (PRINTED) DRIVER SIGNATURE										
-	DESTINAT	ION		DUCNE "	202 202 42	00					
اد	NAME: Denver Arapahoe Disposal Site  ADDRESS: 3500 South Gun Club Rd.	Auror			303-690-43 orado	80013					
!   }	N STREET OLL #	CITY		STA	·	ZIP					
	DISCREPANCIES: 1000 P.T.										
2	I hereby acknowledged receipt of the above following described materix  AUTHORIZED AGENT (PRINT NAME)	1	HORIZED AG	gate Receip		9-29-9					
لِـ						DAIE					
F	RESPONSIBLE AGENCY: Colorado Department of Health, Air Pollution Control 4300 Cherry Creek Drive South Denver Colorado 80222-1530	UNISIO	n   El   24			N: CHEMTREC 800-424-9300					

Ple	ase p	print or type. (Form designed for	use on elite (	10 pitch) harausitas 1										
4		UNIFORM HAZARE WASTE MANIFE	oous	1. Generator's L	IS EPA ID No.		nifest ument No	2.				n the shade		
$\parallel$	3. (			Cuddo	376.876	3 5	V.O.O.							
11	3. Generator's Name and Mailing Address Swedala Industries								A. State Manifest Document Number					
Н	4. Generator's Phone (7/9 ) 40/- 24/3 Colorado 8090/							B. State Generator's ID						
	5 Transported C													
	USPCI ITX DQ 8 80 E 2 494							D 1	C. State Transporter's ID. Transporter's Phone					
	7. Transporter 2 Company Name 8. US EPA ID Number						The Person Name of Street, or other Desires.	tate Tran				A season		
	Designated Facility Name and Site Address     10. US EPA ID Number								ransport				7.	
$\parallel$	USPCITARS							G. S	State Faci	lity's ID			٠٠, ٠	
	19 4 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1								acility's F	hone :	68	7500	7	
G		US DOT Description (Including			Committee of the Commit		12. Cont	ainers	Tot	al .	Unit	Waste		
N	a.	X Huzardous	i lal	rite Cali	1:1100		No.	Type	Quar		WiVol	26.0		
RA	_	X 9, PG	TIII.	NA	3077	1	133	OF	001	90	6	Dog	6	
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d	-													
				2.3										
J	Ad	dditional Descriptions for Mat	erials Listed	Above				K Ha	odling Co	doc to	Maria	Listed Abo		
1	. (	WI96 - 041		7		3/1 A					TVBS(G)	LISTED ADO	we	
199											14.0			
1	5. S	Special Handling Instructions	and Additio	nal Information	1.5									
		undered sected,			\$			13.7	17 73	: 11	Spill	7 -		
				England, Co. He										
10	GE. GE	ENERATOR'S CERTIFICATION: In	erehy doctore	that the contents of the	3 (141)		J.: C.	. #	5.5	2-3	3-9	7		
l	6. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.													
ŀ	u i	If I am a large quantity generator I certify that I have a constitution in the second of the second												
	futu	economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select												
		rinted/Typed Name	inat is available	e to me and that I car	Signature	P3 5			(#					
L	-	A.G. C1.	POL	ETT1	Oignature	6 1	1 (	i Augsto	fell	2		onth Day	Year 96	
17	. Tra	ransporter 1 Acknowledgeme	ent of Recei	pt of Materials				-!				19/1	16	
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18		ransporter 2 Acknowledgeme	ent of Recei	pt of Materials		· ji	The state of the s	1.1	·	-		大人人上	112	
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19	Dis	screpancy Indication Space										444		
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20.	Fac	cility Owner or Operator: Cer	tification of	receipt of hazard	ous materials coup	ed by thi	s manifes	l avec-	t ac act-	die ti	- 45			
	Prir	inted/Typed Name			Signature	oc by un	o manifes	excep	n as note	u m Iten		onth Day	Vees	
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